



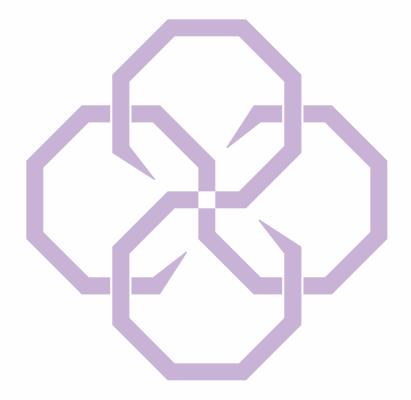


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Racing ahead against all odds

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DECISION MAKING BODIES OF SAU

Governing Board (GB)

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Academic Council

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Executive Council

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Finance Committee

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SAU Administration

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KEY UNIVERSITY FUNCTIONARIES



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u Tr Ny $e^{\mathsf{TM}} z^{\mathsf{TM}} - Pad$ / 8857D5 70

Tuw y 7Ry u



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R ™w 3Tb Ph



R™w 3TS / ™ 785⁄E5 70



R™w 3TS / 8@\$7B5 70



N yw™R™w 3TahO



N yw™R™w 3Tah



u T P w ™ 3RPh / 8757B5 70



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UNIVERSITY FINANCES

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MAJOR HIGHLIGHTS OF THE YEAR

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by myu V'-hyu

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Admissions

Xnk vxuikyy ul gjs oyyout gz Wul zn Eyoogt Yto'kxyoz∙hkmgt "ozn znk rg|tinotm ul g yuiogrs kjog igs vgomt gtj gt gttu|tiksktz.ot s.gpux.tk"yv.gvkxy.ul.gm~znkWEEVG iu|tzxdxy0l-ng|yzókotluxs gzoutjkzgorotmznkgjs gyyout vxuikyy.kromohoroz·ixozkxoog.lkkjhgiqskingtoys.jkzgoryul qjs oyyout 'ur| tzkkxygtj uznkxxkrgzkj otluxs gzout "kxk vrugjkj ut znk Yto'kxyoz "khyozk0 Ggtjojgzky igt ius luxzghr xkmoyzkx gtj gvvr utrotk lxus gt·"nkxk ot znk "uxnj0lgingvvroigzout "gyznuxu|mnr yix|zotoikjzu kty|xkzngzgvvroigtzyskzznksotos|sw|groloigzoutzu gvvkgxluxznkktzxgtikzkyz0Ejs ozigxjyluxznkktzxgtik zkyz "kxk s gjk g'gorghrk zu ju"trugj lux znk utrotk gjs oyyout vuxzgrh ∙znk kromohrk gvvroigtzy0Emrgvvroigtzy "kxk otluxskj h∙ks gon0E ius sut ktzxgtik zkyz "gy iutj|izkj yos|rzgtku|yrot: WEEVGiu|tzxoky ut 34/35 E|m|yz 42420 Stk zkyz iktzxk kgin "gy ykz | v ot Elmngtoyzgt *Ogh|r+Qgrjoky*Qgrk+Rkvgr*Ogznsgtj|+ gtj WkoPgtgg *Gurus hu(Ngllsg+"norkz"uiktzxkykgin "kxkykz∣v ot Fgtmgjkyn *Hngqg (Gnozzgmutm-Fn|zgt *Xnos vn | . Ogtm | tm+, gtj Tgqoyzgt *Ogxgino (Pgnuxk+0 Gutyojk xotmznk rgxmk t | shkxuligtjojgzky gtjznk "ojk mkum xgvnoigryvxkgj. 47 zkyz iktzxky "kxk ykz | v ot jollkxktziozokyot Mijogʻo OEnskjghgj. Fgtmgruxk. Fnuvgr. Fn | hgt kyn" gx Gngt j omgxn. Gnkt t go Gui not. Hkm o Kug. K|"gngzo L·jkxghgj. Mijuxk Ngov|x Ourqgzg. P|iqtu". Q|shgo Tgztg. T|tk. Vgov|x Vgtino Wkotgmgx W|xgz Xxoʻgtjx¦s. Zgxgtgyoʻgtj Zoʻgm Quyz WEEVG Qkshkx Wzgzky ngj gvvuot zkj 1 tus ot gzkj Rujgr Slloikxy zu nkrv

gtjotzkxgiz "com WEY ut gms gzzkxyxkrgzkj zuznkiutj i z ul znkius s ut ktzxgtik zkyz0Xnk Ytókxycz xkikókj l miuuv kxgzout lxus znk Ruj gr Slloikxy ot kgin Qkshkx Wzgzk0E zuzgrt shkx ul;:2; i gtjojogzky gvvrokj lux znk s gyzkxy gtj j ui zuxgzk vxumxgs s ky0S zul znkyk. 8974 gvvkgxkj ot znk ktzxgtik zkyz0Sllkxy ul gj s oyyout "kxkyktz zu 699 i gtjojogzky u zul "noin 473 lotgm puotkj 0 Wu zn Eyogt Ytókxycz yzxoiz lumu" y g xkius s ktj kj w uzgy yzks zukty xkxvxkyktzgzout ul yz j ktzylxus gmznk Qkshkxy Wzgzky ul WEEVG0Qkxoz royzy gxk vxkvyzkj i ul tzx /" oyk gtj znk i us vkzozout oy utr gs utmyz i gtjojogzky "oznot kgin i ul tzx 0Wkgzy rklz lorokj lux gtiul tzx gxk lorokj h yz j ktzylxus uznkx i ul tzxoky ut s kxozhgyoy.gyvkxWEY xl rky0

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	N	N	N	S	N	N	a	0	0	N	N	N	0	N	N	0	N	N	N	N	N	R	C	C
	IL	E	E	NI	E	E	EL	E	E	DP	E	E	ED	E	E	DC	1	E	CN	E	E	DLD	DD	DC
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	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	В	В	В
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Q u zOx yx g xy myu k y 5?9: Gu x ?9?9

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· ·	Ох ух ?9: G	Ox yx ?9?9		
Elmgt øyzgt	5:	64		
Fgt mgj kyn	44	46		
Fn zgt	38	37		
Q grj ó ky	2	2		
Rkvgr	34	38		
Tgq y zgt	8	9		
WoPgt qg	5	3		
h u uv y	Œ	: 9C		
M1j og	324	326		
Mizkxt gzout gr	2	2		
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Elmgt øyzgt	5	6
Fgt mgj kyn	:	32
Fn zgt	3	2
Q grj ó ky	2	2
Rkvgr	8	7
Tgq o yzgt	3	3
WkoPgt qg	3	3
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Scholarships/Freeships

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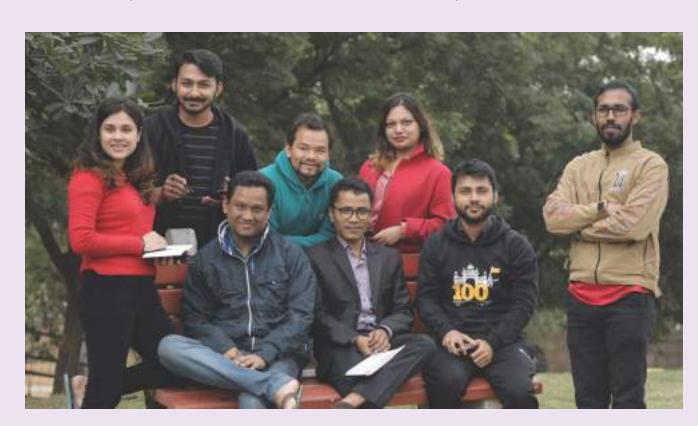
dyxy gw-u-OT a O7a gw-u-x [[axy] 1HX" u yi nurgxynovy gxk ullkxkj lux kgi n gi gj ks oi vxumxgs s k=utk zu znk yz|j ktz yi uxot m znk normkyzs gxqy ot znklt zxgti k Xkyz ot znk M1j ogt royz gtj znk uznkxzu znk yz|j ktz yi uxot m znk normkyzs gxqy ot znk t ut/M1j ogt royz *Wu|zn Eyogt i u|t zxoky uznkx zngt M1j og+" nu lot grr-puot y znk Yto'kxyoz-0, Xnk yi nurgxynov oy ullkxkj lux z"u kgxy gtj "orhk xktk" kj ot znk yki utj kgxy|hpki z zu ygzoylgi zux vkxluxs gti k ot loxyz kgx0 Hkzgory gxk gy lumu"y=

Xnk Txkynj ktzojy i nurgxynovius vxoyky⇒X| ozout Ikk "go'kx-Luyzkr Ikk "go'kx*ol gvvroighrk → MRV 9.222 vkx sutzn gy ro'ot mgmu"gtik 0E"gxj kky" orr gryu xkik o'k gt gsu | tzul MRV 32.222 *gvvroighrk zu tut/Mijogt yz|jktzy+gtj V|vkky 7.222 *gvvroighrk zu Mrjogt yz|jktzy+gy gol/Mzyzz/|vEmu"gtik gz znk hkmottot mulznkoxzkt|xk yu gy zu nkrv skkzvgxzulznkoxothu|tjzxog'kriuyzgtjhuuqv|xingyky kzi0gtjgygoTgiq/|vEmu"gtik gz znk ktjzuiu'kxznkox

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gOOf Q W x u g y Y v yy gw-u - z a u y u x d-R d 'u y H W E E V G/M j og W o'k x N horkk W nurgsynovy *W W + ot yzoz zkj h + znk Q ot oyzx ul I - zkxt gr Ellgoxy *Q I E + K u'kxt s kt z ul M j og. gxk ullkxkj lux Q gyzkx o y gt j H ui zuxgrrk'kryz j oky zu s kxozuxou | yyz j kt zyi us ot m lxus ut k ul znk lumu" ot mroyz ul kromobrki u | t zxokyyvki olokj h + znk Q I E = Elmngt oyzgt . Fgt mroj kyn . Fn | zgt . Q grj o'ky gt j R kv groQ I E ngy s gj k g' gorghrk 97 W W i nurgsynov ylux Q gyzkxy rk'kr yz j kt zy zu W E Y O X nk Q I E ngy rgoj j u"t



j kzgorkj i xozkxog xkmozyj ot mznk g" gxj ul znkyk yi nurgxynov y0 WWWyi nurgxynov y gxk g" gxj kj hgykj ut s kxoz0Eryu.72& ul WWWyi nurgxynov y gxk xkykx' kj lux lks grk i gtjoj gzky0 Mligyk. znkxk gxk tuzyl lloi oktztl shkxy ul lks grk yzlj ktzy. znkt znkyk yi nurgxynov y sg·hk g" gxj kj zu znk sgrk yzlj ktzy0WWyi nurgxynov y gxk moʻkt luxz" u·kgxy gtj znly. tu lxkyn WWWyi nurgxynov yngrrhk g" gxj kj ot znk yki utj·kgxul g Q gyzkxoğ v xumxgs sk0L u" k'kx g WWWyi nurgxynov i gthk joyi utzotlkj glzkx znk ktjul znk loxyz·kgx obgyzlj ktz lgory zu sgot zgot znk xkwloyozk GKTE gyjoyilyykjhkru" 0

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Xnk WWW winurgxynovius vxoyky⇒X| ozout Jkk "gókx-Luyzkr Jkk "gókx-róotm gmu" gtik ul MAV 9.222 vkx s utzn *Qgyzkxóyrk' krvxumxgs s ky+uxMAV47.222 vkxs utzn *TnH vxumxgs s ky+0E"gxjkky "orr gryu xkikók gt gsu|tzul V|vkky 32.222 gygolWzgxz/|vEmu"gtik gzznk hkmottotm ulznkox zkt|xk yu gy zu nkrv s kkz vgxz ulznkox othu|tjzxg'kriuyz gtj huuq v|xingyky kzi.gtj gygolTgiq/|vEmu"gtik gzznk ktj zuiu'kxznkoxu|zhu|tjzxg'krgtjk-zxghgmmgmkiuyzxkyvkizókr0

gOi a y gw-u - OT a O7a gwu x [[a xy 1HX" u WEY Qkxoz yi nurgxynov y gxk g' gorghrk ot kgi n gi gj ks oi vxumxgs sk gtj yngrrhk g" gxjkj gy vkx znk lurru" ot mi xozkxog=

Wx uHFgykj ut znk ktzxgtik zkyz lxus znk s kxoz royz znk zuv z"u yz j ktzy "or hk g"gxjkj "ozn WEY s kxoz yi nurgxynov y."noin k—i r j kyTxkyoj ktzyi nurgxynov nurj kx0

Xnkyk yinurgxynovy gxk ullkxkj lux z" u · kgxy gtj "or hk xktk" kj ot znk ykiutj · kgx y| hpkiz zu ygzoylgizux v kxluxs gtik ot lovyz· kgx0Hkzgorygxk gylurru" y=

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30X| ozout lkk-nuyzkrlkk*olgvvroighrk+"gókx-7.222 M/V yzovktjvkxs utzngyróotmgrru"gtik

40X| ozout lkk-nuyzkrlkk*olgvvroighrk+"golkx0

Xnkyk gxk ullkxkj zu kiutus oigm- "kgqkx yz|jktzy jkvktjotm ut znkox lgs or otius k0 Xnk Winurgxynov Gus s orzkkyngrrjkzkxs otkznkotius krk'krh-zgqotmotzu giiu|tz'gxou|ylgizuxyy|in gyvgyzvxgizoikylumu"kjh-znk |to'kxyoz-zu jkzkxs otk znoy rk'kr. gvvroigzouty xkiko'kj.l|tjyg'gorghrkkzi0Xnkyk"orrhkj|r-tuzolokjotj|kiu|xyk0Wz|jktzy"nu"oyn zugvvr·luxWEY Jotgtiogry|vvuxz s g-ju yu |vut puototm znk |to'kxyoz-0 Xnkgvvroigzout lux WEY lotgtiogry|vvuxz ynu|rj hkgiius vgtokjh-jui|s ktzyzngzjoyiruykznkzuzgrlgs orotius ky|ingy=

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h+Et otius k ikxzoloigzk oyy∣kj h⋅g mu'kxts ktz huj·1gmkti⋅

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Xnk lumu" otm jui|s ktzy yngm tuz iu|tz zu" gxjy

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STUDENT FACILITIES & SERVICES

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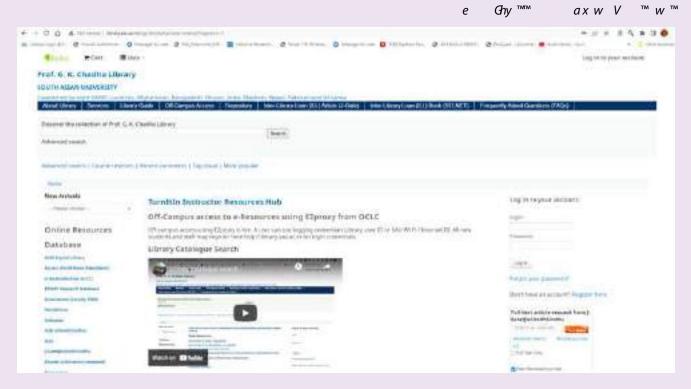
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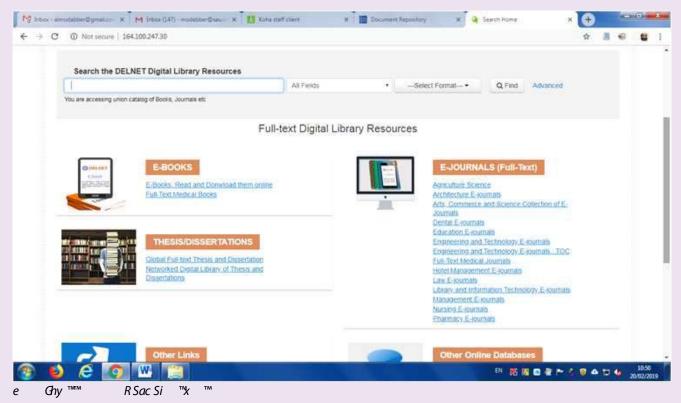
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Gngmkt mky j | xotim Gu' oj /3; ?H | xotim znk kt zook rui qju" t. ghu | z 594 rghu | xkxy | t j kx Tgi qgmk/NMgt j 787 rghu | xkxy | t j kx Tgi qgmk/NMgt j 787 rghu | xkxy | t j kx Tgi qgmk/NMgt j 787 rghu | xkxy | t j kx Tgi qgmk/NMgt j 787 rghu | xkxy | t j kx Tgi qgmk/NMgt j xi gs vy. h | z t u v n· yoi gr "uxqiu | rj gi z | gm² xky | s k0Es oj rui qju" t. znk yoz | gzout "gy kllki zoʻkr ngt j rkj h· TQG gt j WEY kt motikkxotim" otim gt j oz "gy kt y | xkj zngz znk "krlgxk ul znkyk "uxqkxy oy hkotim zgqkt i gxk ul h· xkyvki zoʻk i ut zxgi zuxy gt j znk· gxk t uz j kvxoʻk j ul hgyoi gs kt ozoky roqk luuj. nkgrzni gxk gt j znk i ut j ozout y ul rui qju" t otir | j otim yui ogr j oyzgt i otim gt j vxuvkx ygt ozo gzout oy hkotimos vrks kt zkj gz yozk0Xu kt y | xk i us vrogt i k. g j gor yzgz y xkvuxz "gy kt y | xkj lxus huzn znk gmkt i oky0Hoyzz Ej s t "gygryu gi zoʻkr s ut ozuxotim znk yoz | gzout 0

Elzkx ruiqju" t MWM Ku'z grru" kj xky s vzout uliutyz kizout "uxqy" oznot yoz "uxqkxy" klóżn Qg-42420 Gutyoj kxotm znk g'gorghoroz ulot yoz rghu x huzn znk gmkticky yzgxzkj s uhoro-otm znkox y vkx'oyuxzkgs 1kt motkkxy *55& yzzktmzn+gtj yzgxzkj tkikyygxvxkiutjozoutotm gy vkx WST ulo LEO Erznu m znk xks uhoro-gzoutojizó ozokyyzgxzkj.h zhuzn znkiutzxgizuxy. TQG gtj WEY zkgs y ng'k hkkt lgiotm t sku y vxuhrks y. rouk tkikyygx vxkiutjozoutotm yuiogrjoyzgtiotm ygtozo-gzoutul gxkg. gxogtmotmTTI. znkxs gryixkktotm joyx vzoutoty vvr ulh ojotms gzkxogry.lkgx lgizux jks uzó gzout ulznk" uxqkxy gtj y vkx'oyux zkgs. s gtj gzux w gxogt xotk kzi OgyvkxWSTulQLEO

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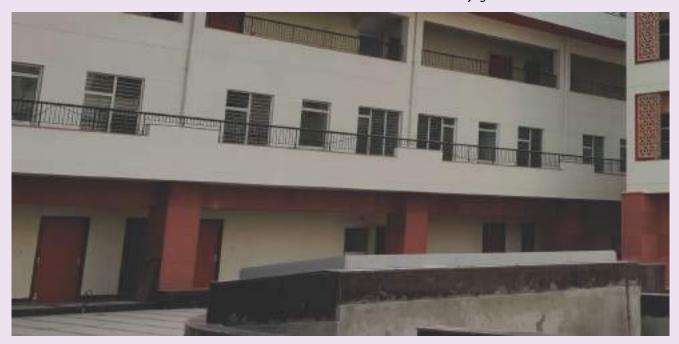
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Faculty of Economics

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Fn zgt	3	Tgqoyzgt	2
Nt)jog	8	WkoPgt qg	2
S znkxy	2		

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Elmgt øyzgt	3	Qgrjóky	2
Fgt mgj kyn	2	Rkvgr	4
Fn zgt	2	Tgqoyzgt	2
M1j og	5	WkoPgt qg	2
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SOUTH ASIAN UNIVERSITY
ANNUAL REPORT 2020

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P-u uw-u u4 g y-u - -. Vk' ok" kj s gt | yi xovzy lux znk lumu" otm pu | xt gry= *g+ Vk' ok" ul Vgjoi gr Turozoi gr liutus oiy. *h+Gus v kzozout (Gngt mk

Ru' u40 vu . Vk'dx''kj s gt|yixovzy|lux|znk lumu''dtm|pu|xtgry=*g+Hk'kruvs|ktz|gtj|Gngtmk|*h+Wormqvuxkliutus|oi|Vk'dx''

Ru u4g u. Vk'ok" kj z" u gxzoirky lux Mijogt liutus oi Vk'ok" gtj utk gxzoirk lux liutus oi Gngtmk gtj Vkyzx|iz|xotm

gu-u4Ryvxu u.1-zkxtgrxklkxkkluxgTn0H0znkyoyktzoznkj čtrkizuxgrGusvkzozout.Puhh-Juxsgzout.gtjlw|ordnxo|sč y|hsozzkjzuWinuurulMizkxtgzoutgrWz|joky.Ng"gngxrgr Rknx|Yto'kxyoz.otHkikshkx4242

U u4 fx − u. xklkxkkj g vgvkx lux znk pu|xtgr It'oxuts ktzgtj Hk'kruvs ktzliutus oiy

gu-u4 Ryvxu u. Qks hkx Eigjks oi Gu|tior. Eznkty Mryzoz|zk luxlj|igzout gtj Vkykgxin. Kxkkik yotik 53 Njr 4242

d v wu

Wgng. Hkhj gzzg *4242+1 i ut us $\dot{\mathbf{o}}$ y ul znk Juuj Txui kyyat m

Ntlj | yzx = Pkyyut y Ixus Fongx Ntlj og. Wot mgv uxk. W/xot mkx NMFR \Rightarrow 9: /; : 3/35/: 776/6

O wy7Q-u y P

gu-u4Ryvxu u. d\text{v1} | yzxogrTuroi·=Gus vgxotmFongxgtj Nngxqngtj ot Eyns ozgK | vzgkjozkj WuiogrWzgzoyzoiy. \text{v1} jog. Txos | yFuuqy*4242+; 9: /; 5/; 2244/57/;

U u 4 bu u u gtj Gng|jn|xo Fgy|jkh. "Vurk ul otlux sgzout of jkzkx sototm znk "omotim tkyy zu vg·lux nkgrzn oty|xgtik." ot Gngqxghuxz·. Xgtoqg. Hkkv Q|qnkxptkk.gtj WgxgtoWgng*kjyOr-Gutzks vuxgx Myy kyot Wyzgotghrk Hk'kruvs ktz=Xnk Ggyk ul Mijog.ingvzkx 37. 49: /4; 6.Xg·rux(Jxgtioy.42420

O wy7Q-u y Y u

gu-u4Ryvxu u (X0Q 0Zgy| vxgjg. Vki utiorotmi utlroizotm znks ky ulzxgjozoutgroz gtjottu' gzout=gtgvvroigzoutul xkykgxin tkz" uxqy | yotmg| znux gllorogzout. Ej'gtiky ot Xxgjozoutgr Q kjoiotk *Wvxotmkx+ vv0 3/36. 42420 jue= 32032291y357; 8/242/22737/"0

gu-u4 Ryvxu u (X0Q0 Zgy|vxgjg. oMl'kyzomgzotm Gusskxiogr Miktzo'ky lux Mitu'gzout = Et Evvroigzout of Xxgj ozoutgr Qkjoiotk. Wz|joky ot Qoixukiutusoiy*Wgmk+ 4242.juos320339914543244442;63;;7

U u 4P gtj L 000R gzn *4242+d¥lj ogýy Vk' kgrkj Gus v gxgzó k Ej'gt zgmky ot Q kxingtjoyk Xxgjk "ozn Gu|tzx: Kxu|vy gz Hollkxktz Pk'kry ul Hk'kruvs ktz Q y u Sw wd w .ZurO5;.Ru04.vv0599/;90

P-u uw-u u4g y-u- -. gtj WjxhnoOkygx aTxkigxaz· gtj Hk'kruvs ktz=Txuj|izout gtj PghuxTxuikyykyotznk Miluxs grliutus· ot Mijog. Vk'ok" ul Vgjoigr Turozoigr liutus oiy. Zur|s k 74. Myy|k 5. 4242. vv05: 9/62: . MWWR = 26: 883560

Ru' u4 O vu . dM Wkgxin ul Tuyz/j k' kruvs kt z J| z| xky.*huuqxk' dx'' +li urum.li ut us · gt j Wui dxz· znk MN WI Nu| xt gr 5 *4 = 425 429. N| r 4242 MM/R = 47: 3/8374 *vxdt z+247: 3/8323*" kh+0

Wgxgzingtj. G0 gtj **Ru u4 g u**. dtjumktu | yrnkzkxumktku | y otlrgzout k-vkizgzouty gtj s utkzgxvumoi·. Nu | xtgrul Tuyz Ok·tkyogt liutus oiy. v | hroynkjutrotk ut Ngt | gx 4:.4242. MWWR=382/5699 *Txotz+3779/

9: 43 *S t rot k+0

Ru u4g u gtj Wgxgzingtj. Go cOgrkiqogt iutlroiz ctlrgzcut "czn ktjumktu|y rghuxy|vvr·. Qkzxukiutusoig.v|hroynkj utrotk ut Wkvzkshkx4:. 4242.StrotkNWWR-3689/;;;]

Zy yOxx y y u xW yxhu

U u 4P . v gxzoiov gzkj gy g xkyu | xik v kxyut ot g v gtkrjoyi | yyout ut čtiutus oi Miv gizy u IGS ZMH3; gixuyy znk Mijogt Wzgzkyčuxmogtorkj h-znk IKVS [Ju | tjgzout. Rk" Hkmo 3 yz Sizuhkx 42420

U u 4.P . digy znk Emogxogt U kyzout Fkius k Vkj | tjgtz ot Eyygs čot g "khotgx uxmgto-kj h-znk Hoyiovrotk ul liutus oiy. OOLWSY gtj Hkvgxzs ktz ul liutus oiy.Hoyv | xGumkmk.44E | m|yz.42420

U u 4P . & klrkizouty utznk Hxglzlt'oxuts ktzgr Malvgiz Eyykyys ktz Ruzoloigzout. 4242č ot g "khotgx uxmgtoikj h∙znk MolEG gtj Hkvgxzs ktz ulliutus oiy. Wortgs uxg Gurrkmk gtj MolEG RF Goz• Gurrkmk.; E|m|yz. 42420

U u 4P . dwlzkxxumgzotmznk Emxgxogt U | kyzout lux Vk'o' otim znk Tgtjks oi Loz Eyygs liutus ·=Putm′zkxs Wzxgzkmokyčot g "khotigx uxmgtoikj h·znk Hkv gxzs ktz ul liutus oiy. HomhuoQ unong Zoj·grg·g. 49N, r. 42420

U u 4P . d̃gtjks oi.T|hmi Miyzoz|zoutygtjWuiogr [krigxkčuxmgtorkjh znk Hkvgxzsktzulliutusoiy.otg "khotgxuxmgtorykjh znk Hkvgxzsktzulliutusoiy.FOF Gumkmk.3;N,r.42420

U u 4P .. & gyznk Tgtjks ois gjk Kruhgroygzout g vgyy C Gngmkt mky gtj S vzout y lux Mrljogt liutus · čot g "khotgxuxmgto-kjh·znk Hkvgxzsktzulliutusoiy. Q 0G0 Gumkmk. 36Njr. 42420

U u 4P .ð Tgtjks oi. Kruhgroygzout gtjznk Mrljogt liutus · čot g "khotgx uxmgtorkj h-znk Hkvgxzsktz ul liutus oiy.Ex-g Gurrkmk.: Njr.42420

Z u 4g . δ WFQ y| vkx/klloiokti·s uj krčot z"u/jg-Mtzkxtgzoutgr [uxqynuv ut Jxutzokx Etgryoy "ozn HIE uxmgtoikj h· Hkvgxzs ktz ul liutusoiy. T| tpgh Ytoikxyoz·.Gngtjomgxn.E| m| yz8/9.4242

Z u 4 g . čruyz. xk'kt | k. gtj v xuloz klloiokti·s kgy|xks ktzčot z"u/jg· Mizkxtgzoutgr [uxqynuv ut Jxutzokx Etgryoy" ozn HIE uxmgtorkj h· Hkvgxzs ktz ul liutus oiy. T|tpgh Yto'kxyoz·. Gngtjomgxn. E|m|yz 8/9. 4242

Z u 4 g . ČQ uj krrot m | tj kyoxghrk gtj tut/

j oyixkzoutgx: 'gxoghrkyč ot z"u/jg. Mizkxtgzoutgr [uxqynuv ut Jxutzokx Etgryoy" ozn HIE uxmgtorkj h. Hkvgxzs ktzulliutus oiy.T|tpghYto'kxyoz..Gngtjomgxn. E|m|yz8/9.4242

Ru u4g u. & Vurk ul Qgznks gzóry ot Wyzgotghrk Hk'kruvs ktzulliutus okyčPkiz|xkgtjTgtkrHoyi|yyout uxmgtorkjh-Pgj-Whxoxgs Gurrkmklux[uskt.YtókxyozulHkmo.Ngt|gx-46.42420

Ru u4g u. č. krlgxk znkuxks y ot Qgixuki ut us oiy= [nkt j u znk· lgorCčč uxqynuv ut liut us oi Xnkux· gtj Is voxoiyčuxmgtorkj h· Wu| zn Eyogt Yto'kxyoz·. Rk" Hkmo Jkhx| gx· 3; /42.42420

U u4f x – u. otrkizxoloigzout gtj GuuqotmJ|krGnuoik otV|xgrNtljogčgzznk'oxz|griutlkxktik ul "Eyyuiogzout ul lt'oxutsktzgrgtj Vkyu|xik liutusoyzy"lxus N|tk 5/7. 4242

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Wyuuk - RuuSyy OuzdyzuwySuu ux Pyw-u'

Xnk Jgi | rz· ul I i ut us oi y uxmgt o kj g znxkk/jg· Mtzkxt gzout gr[uxqynuv ut HgzgIt' kruvs kt zEt gr· yoylux Tkxluxs gt i k I' gr | gzout gt j Fkt i ns gxqot m ut 34/36 Ngt | gx· 42420Xnk vxos gx· mugr ul znoy " uxqynuv " gy zu hxot mzumkznkx· u | t mxkykgxi nkxy ot znk lokrj ul klloi okt i· gt j vxuj | i zoʻ oz· gt gr· yoy | yot m znk t ut /v gxgs kzxoi lxut zokx s kznuj urumoi gr lxgs k" uxq0Xnk " uxqynuv gryu os v gxzkj zxgot ot mzu·u | t mxkykgxi nkxy ut ' gxou | y j gzg kt' kruvs kt z gt gr· yoy *HIE+s uj kry0Xnk " uxqynuv ngj v gxzoi ov gt zy lxus ' gxou | y vxkyzomou | y ot yzoz | zky ot Mij og0 Hoyzot m oynkj yv kgqkxy ot znk " uxqynuv ot i r | j kj W hngyn G0 Vg·. Txulkyyux ul I i ut us oi y. Y t oʻ kxyoz· ul Gut t ki zoi | z. Y WE 0 Txulkyyux W t or O | s gx " gy znk uxmgt oʻ ot m yki xkzgx· gt j Hx0 Wu | s·g Hgzzg " gy znk i uuxj ot gzuxul znk" uxqynuv0

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zuuqznkuvvuxz∣too-ulznk"uxqynuvzuyngxvktznkox xkykgxin w| kyzouty ot znkoxjuizuxgr"uxq."nkxkgy yktoux xkykgxinkxy "kxk otzkxkyzkj ot | tjkxyzgtjotm znk ctzkxiuttkizout hkz"kkt kiutusoi znkux gtj kiutus kzxoi zkintow ky0 Evgxz lxus rkiz∣xky h⋅ Hx0 Hkhjgzzg Wgng gtj Hx0Wu|s · g Hgzzg lxus znk Jgi|rz·ul liutus oiy. WEY. Txul OEt pogt Q | qnkxpo Txulkyyux Is kxoz y. Ng"gngxrgrRknx|Ytoˈkxyoz·.Rk"Hkmomgˈkgrkiz|xkut gvvnoigzouty ul mktkxgrkw | ordnxo| s znkux-0 Xnk ykiutj jg ot'ur'kj gjkzgonkj ot'kyzomojzout ulzos kykxoky oyylky otkiutusoiy0Txul0Ex|vQoxxg.Hkgt.Jgi|rz·ulliutusoiy. rkiz|xkj ut 'gxou|y gyvkizy ulzos k ykxoky gtgr-yoy." nork HxOTxqqqyn lxus znk Mtlyzozl zk ulliutus oi Kxu"zn. Rk" Hkmoks voxoigm-jks utyzxgzkjznkiutikvzy|yotmznkl/ Zdx" y yulz" gxk0Txulkyyux Ex v Q axg gt j Hx0Hkhj gzzg Wgng "kxkznkiuuxjotgzuxyulznk" uxqynuv0

du y d y y yx u x[yw y Ry y yx

U u 4bu u u tekom huxnuuj gtj znk vkxikvzout ul znk w groz ul skjoigr zxkgzsktzčgz znk 4tj Vgpogmoxo Gutlkxktik ut liutusoiy gtj Jotgtikpuotzr uxmogtoikj h VgpogmoxoF y otkyy Winuur gtj Vgpogmoxo Gumkmk ul Wuiogr Wioktiky *E | zutusu | y+ Ouino ot gyyuiogzout "ozn Xnk Motjoogt liutus kzxoi Wuiokz *XMWH-gtj znk Ytoikxyoz ul liutusoiy. Lu Gno Qotn Goz *YIL+ut 7zn /8zn Ru'kshkx 42420

Uuu4buuu.jkrókxkjrkiz|xkyot gJók Hg∙yutrotk "uxqynuv ut Xos k Wkxokygtj TgtkrHgzguxmgtorkjh∙znk Jgi|rz·ul Qgtgmksktz. Tuqngxg Ytókxyoz·. Rkvgrot Eigjksoi Tgxztkxynov "ozn Ytomruhk Gumkmk. Ogznsgtj. Rkvgrlxus 37/3; Sizuhkx 42420

P-u uw-u u4 g y-u - -. čTuyziurutogr Ggvozgroyz Hk'kruvs ktz=E Qgx-ogt Vkiutikvz|gro-gzoutč Vu|tjzghrk Trktgx-ulznk Hk'kruvs ktz[uxqotmKxu|vzozrkj čVkznotqotm liutusoi Hk'kruvs ktz lxus Gxozoigr Tkxyvkizolkyčgz znk_WWZoz|gr Trktgx.uxmgtoikj h·znk_u|tm Winurgxy Mrozogzolk*_WMaulznk Mryzoz|zk lux Rk"liutusoi Xnotqotm*Mil X+nkrj ut 32 Ru'ks hkx42420

P-u uw-u u4g y-u - -. čTurozoi grliutus · ul GS ZNH/3; Tgtjks oi gtj ozy Msl vgiz ut Pghuxčgt otzkxt gzout gr y·s vuyohs zoznkj čtuxq Gutjozouty Tuyz GS ZNH/3; č uxmgtoikj h· Ognqgyngt/l/Whgxw Mslyzoz|zk ul Lommkx lj|igzout.Lkxgz.Elmmgtoyzgt.nknj ut 42 N r·42420

Ru u4g u. Œyykz Txoiotm Qujkryč čigi | rz· Hk'kruvsktz Txumxgs ut Ej'gtikj Xuvoiy ot Qgixukiutusoi Xnkux· gtj Turoi·čuxmgtoikj h-Hkvgxzsktzul F | yotkyyliutusoiy(Vgsgt | pogt Gurrkmk. Ytokxyoz·ul HkmoQgxin 8/36.42420

Ru u4g u. & Wirkizkj Xuvoiyot MizkxtgzoutgrJotgtikč ðgi|rz- Hk'kruvs ktz Txumxgs ut Ej'gtikj Xuvoiyot Qgixukiutus oi Xnkux- gtj Turoi-čuxmgto-kj h-Hkvgxzs ktzul F|yotkyyliutus-oiy(Vgs-gt|pogt-Gurrkmk. Ytó-kxyoz-ul Hkmo8/36 Qgxin.42420

Ru u4g u. &Pkiz| xky ut Fkng'ouxgr Qgixukiutus oiy (Jotgtikč*4 rkiz| xky j krókxkj utrotk+ uxmgtorkj h-Lotj| Gurrkmk.Ytókxyoz-ul Hkmo9/: Qg. 42420



Milzkxtgzoutgr[uxqynuv ut Hgzglt'kruvs ktzEtgryoyluxTkxluxs gtikl'gr|gzoutgtjFktins gxqotmnkrjj|xotm34/36 Ngt|gx:4242

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g 6b 6	Ru y	gvyw7h w	gyuy buy – Ozzu
3	4502304242	Xnk Kxu"zn Qusktz s ot Fgtmgjkyn	W kj Q 0Enygt. Gutiuxjog Yto'kxyoz∙. Q utz×kgr. Ggtgjg.Jgi rz·ulliutusoiy
4	5202304242	TkxyoyzotmMolvgizulVgotlgmWhuiqyut Ij igzoutgrS ziuskyotPgzkxPolk	TkxyoyzotmMolvgizulVgotlgmrWhuiqyut j igzoutgmS ziuskyotPgzkxPolk
5	2802404242	eExinozkiz xkulZgn kGgvz xkot Txuj izoutgtjJotgtik≔ETkxyvkizo\k IxusznkKruhgrWu znč	Wgz-gqoVu∙.Mryzoz zkluxWz jokyot Mrj yzxoogr Hk'kruvs ktz.Rk" Hkmo
6	4902404242	TuzktzogrKgs ky. PgxmkTuv rgzout Gutzkyzygtj Ellovs gzókEizout	Vgz r Pgnqgx Eynuqg Y t oʻkxyaz-
7	2702504242	Qujkmotmvxuj izoutulhgju zv zy= znkux gtjksvoxoiy	W xktjkxO s gxHkmoWnuurulliutus oiy
8	4802; 04242	Putm/zkxs os vgizulk–vuy xkzuˈounktz iutlnoiz=ExkznkxkmktjkxjollkxktikyC	Loxgt·g ORgzn.Hkvgxzsktz ulliutusoiy gtj MrzkxtgzoutgrF yotkyy.Wgs Lu yzutWzgzk Yto'kxyoz∙.YWE
9	38@2@4242	Jgoxtkyyoylrk–ohrk–Eyz j·uliusvkzotm luigrvuotzy	W hxgzu Fgtkxpokk. Gktz√k lux Fkngʻou xgr liutus oiy. Wuiokz-gtj Xkinturum *FIWX+ U kktyrgtj Yto'kxyoz-ul Xkinturum ?gtj gt nutuxgx-lkmu" gzznk E yzxgrog Mijog Miyzoz zk. Yto'kxyoz-ul Qkmu xtk
:	4503204242	Qutuvur gtj znkuznkx≔Vklkxktik/ jkvktjktikot 'kxzoigm-jollkxktzogzkj s gxqkzy	Txo gt qg Ouzngxo Vkykgxin Jkmu". Ntljogt Wzgzoyzoigr Ntlyzoz zk
;	4; 03204242	Vkj oyzxoh zot mzkgi nkxygs ut myi nuury	Wu∣s ktj∣ Wgxqgx XIVNWinuurul Ej'gtikj Wz∣joky.Rk" Hkmo
32	4203304242	KktjkxRuxsygtjznkQuznkxnuuj Tktgrz·⊨l–vkxosktzgrl'ojktiklxus Mijog	Exp t Fkjo Xnk Mizkxtgzoutgr Miyzoz zk ul Wuiogr Wz joky*MMW-lullxgys yYto'kxyoz·Vuzzkxjgs
33	4803304242	liutus oi Kkumxogvn ∙ulGutzogmout≔E yz j·ulGu'oj3;S zhxkgqotMijoog	Etoxhgt Q qnkxpkk.Ytoʻkxyoz ul Ggri zzg

g xy Ow-yyy

Zy u 4g v − . y| iikyyl| rr· jklktjkj nkx juizuxgr joyykxzgzout.zozrkjol/kznotoqotmH| groys ⇒Xnk Ggykul Mijogt Miluxs gr Wkizux. ut 5 Qgxin 4242 gtj "gy g"gxjkj znk jkmxkk ul Huizux ul Tnoruyuvn· ot liutus oiy0 Hx0 Wtkngynoyn Fngzzgingx·g "gy znk Txos gx· W/vkx'oyux ul znkjoyykxzgzout." nork Hx0Etochgt Hgym| vzggtj Hx0Vunot Etngr"kxk znk Gu/W/vkx'oyuxy0Whkoy znk loxyzyz| jktzzu mxgj | gzk lxus znkjuizuxgrvxumxgs skulznk Jgi | rz· ul liutus oiy0 Whkoy i | xxktzr· zkginotm gy gt Eyyoyzgtz Txulkyyuxulliutus oiygzznk Winuurul Exzygtj Wioktiky.

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du u4a u . dvilyzoz| zoutgr Hkzkxs otgtzy ul Hus kyzoi Nvil'kyzs ktz=E KQQ Tgtkr Hgzg Etgr.yoyč dikxgjkto g Nvizkxtgzoutgr liutus oiy Vkykgxin Wsvuyojs 4242č *utrotk+uxmgto-kjh. Yto'kxyoz ul Tkxgjkto-g. WkoPgtqg *otiumghuxgzout" ozn Wu|zn Eyogt Yto'kxyoz.Rk" Hkmo-k Hki ks hkx32.42420

Pu 4 hu . ¿Zourktz Txuzkyzy gtj Xxgtyozoutgr Vkmos ky= Is voxoigr I'ojktik Ixus Exgh Wvxotmč ¿Tkxgjkto-g Ntlzkxtgzoutgr Iiutusoiy Vkykgxin W svuyojs 4242 č *utrotk+uxmgto-kjh-Yto'kxyoz-ul Tkxgjkto-g. Wko-Pgtqg *otiumghuxgzout" ozn Wu|zn Eyogt Yto'kxyoz-. Rk" Hkmos-Hkikshkx32.42420

Pu 4hu .Æ Guuxjotgzout Kgs kulVkmos kGngtmkgtj Hks uixgzo-gzout = Miluxs gzout Qgtov|rgzout gtj Milzkxs kjiogzk Vkmos kyč č36zn Milzkxtgzoutgr *Zozz|gr+ Gutlkxktikut Gus v|zgzoutgrgtj Jotgtiogriiutus kzxoiy *GJI 4242-¥čuxmgtorkj h-GJI Rkz″uxqgtj OotmŏyGumkmk. Putjut.Hkiks hkx3;/43.42420

Puxkt g R | k.• Ggxxgyi u. Ehng Ngoy" gr. Ngou Exxu". Qoinkr Ogyut mu Q | zkhg gt j Ex gr. Foj ngt / čHu s om xgt zy roʻky s gzzkxCE i us v gxoyut ul i g | yky ul j kgzn hkz" kkt Elxoigt s om xgt zy lxus WEHG i u | t zxoky gt j Wu | zn Elxoigt y ot znk v uyz/Ev gxznkoj kxg*4224/4237-čot Mzkxt gzout grNu | xt grul Q om xgzout. L kgrzn. gt j Wu i ogrGgxk. Zur | s k 38 oyy | k 6. MWR = 3969/; :; 6. T | hroigzout j gzk= 4: S i zuhkx 4242. HS Ma

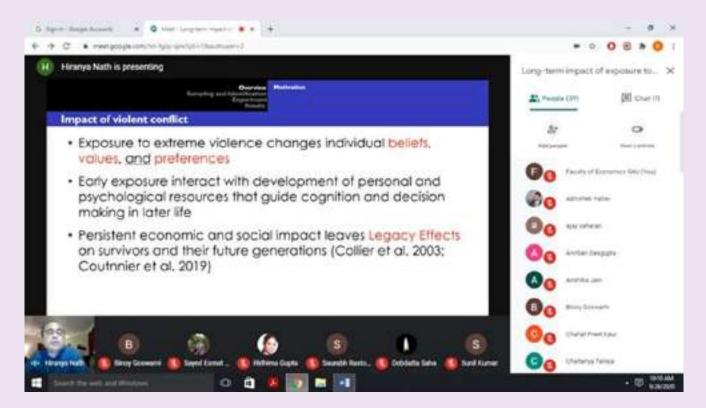
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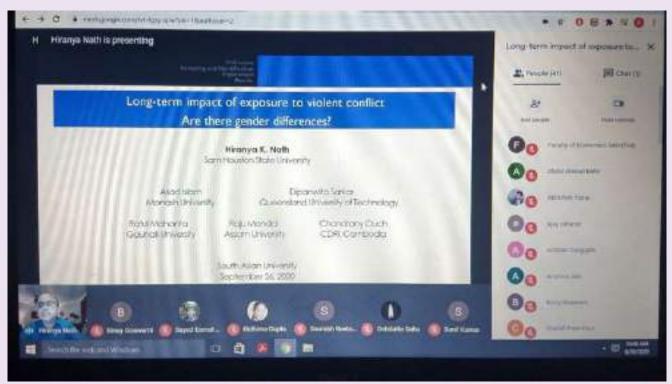
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"gyg"gxjkj znk H0VOK gjmor Qks uxogr Fkyz Tgvkx E "gxjlux noy xkykgxin v gvkx zozrkj oWzk|iz|xgr Gngtmk ot znk
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Faculty of Legal Studies

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Fgt mrgj kyn	4	Rkvgr	4
Fn zgt	2	Tgqqyzgt	3
Nt/jog	5	WkoPgt qg	2
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Elmgt øyzgt	5	Qgrjóky	2
Fgt mrgj kyn	:	Rkvgr	5
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9	Txghngyn Vgt pgt	Ot my Gurkmk Put j ut . YO	Eyy o yzgt z Txulkyyux	NYzkxtgzoutgrliutusoiPg". NYzkxtgzoutgrNY'kyzsktzPg". [uxnj XxgjkPg"

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Y 4 g y u. Qks hkx Ej 'oyux Gu|tior. Gktzk lux Txoʻgzk Mizkxtgzoutgr Pg". K|pgxgz Rgzoutgr Pg" Ytoʻkxyoz OfKRPY+nzzv≟1nntr|OgiOnt1Txoʻgzk/Mizkxtgzoutgr/ Pg"1Xkqs

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/Eyyui ogzk Qks hkx M1j ogt Wui okz: ul M1zkxt gzout grPg".

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- Y 4 g y u. Kg. gzxo R goq & Mgmg ul Mgmg ul Mgj u/YW Gros gzk Gutzkyzgzout gtj Guuvkxgzout = EPkmgr Etgr. yoy ot Mgj u YWVkrgzout Etgr. yoyč ot HxOWh'kzg Hngrof gr Mgj u YWVkrgzout y.kj +*Vu|zrkj mkluxzni us ot m4243+
- Y 4 g y u. d'gr|gzotmznk Guss|toz Vkyoroktik ot Txus uzotmliurumoigrgtj WuiogrN, yzoik ot Kxu|tj[gzkx Ku'kxtgtik= Pkyyuty Ixus Mijogč ot Hktoyk Etzuroto Xogthgu Uot. Jxgtikyiu Wotjoiu gtj Wzkvngtok Wioz kx *kjy+Xnk Xxgtyluxs gzout ul It'oxutsktzgr Pg"gtj Ku'kxtgtik=Voyq. Mitu'gzoutgtj Vkyoroktik. Ij "gxj Imrogx T|hroynotm*luxznius otm4243+
- Uu y u4gu fu u . **' ozn Whologo Gnu"jn | x + č\nk Lgm | k Gut'ktzout ut Txuzkizout ul Gnorjxkt gtj Gu/uvkxgzout ot Vkyvkizul Mlzkxiu | tzx Ejuvzout Wiikyyky gtj Gngmktmkyčot Xnus gy Nunt. kz gnO *kjyOxnklmgx Gus vgtout zu znk Lgm | k Gutlkxktik ut Txolgzk MtlzkxtgzoutgrPg" *I Imgx 4242-10

- Jokrj. Nkyyoig. **Pu4gu**. Nhg. Qkqnrg gtj Gnu|jn|x.W/s kjng.oft/zvuj|izoutčot Jokrj. Nkyyoig. gtj F|xxg. Wkotoʻgy *kj0-Xnk Kruhgr Gus vgiz ut Vkl|mkky= M1joogt Tkxyvkizoʻky gtj I-vkxoktiky Rk" Hkmo= Eigjks oiogty[uxqotmKxu|v(YRLGVM1jog.4242.vv.3/ 320
- P u4g u . čXnk Kruhgr Gus v giz ut Vkl | mkky gtj Mtj og=Vkot luxi ot m znk Wzgz | y U | uč ot Jokrj . Nkyyoig. gtj F | xxg. Wkot oʻgy *kj O+ Xnk Kruhgr Gus v giz ut Vkl | mkky=Mtj ogt Tkxyv ki zoʻky gtj I –v kxokt i ky R k" Hkmo=Eigjks oʻogt y [uxqot m Kxu | v (YRLGV Mtj og. 4242. v v. 87/960

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- Y 4 g y u. čGros gzk Gngtmk gtj Kktjkx Molvrks ktzotm znk Wyzgotghrk Hk'kruvs ktz Kugry znxu|mn L·hxoj rg" gtj It'oxuts ktzgr Nyzoik ot Moljogč Gus s ut"kgrzn Pg" F|rrkzot. 4243*69+3 *luxznius otm+NMWR 2527/293:
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- **Uu y u4gu fu u** . åttlzkxxumgzat m Ntlzkxt gzaut gr Pg" gt j Winurgxynav lux znk Q gyyat m R gxxgzó ky ut Vkramau | y Q gyum $t \cdot$ at Wu| zn Eyagó *423; +32*4+ Nat j gr K ruhgr Pg" Vk' ak" 445*i u/g| znux=1 gxznangt F+
- P u4g u . č/yk ul Juxik gy Wkrl Hklktik gmgot yz Rut/ Wzgzk Eizuxy gtj X[EMP Gut yojk xgzout y=EGxozoi gr Et gryoy ul Mrljog y Wzgzk Txgizoik čot Eyogt _kgxhuuqul Mrlzkxt gzout gr Pg". Zur046.423:.vv 328/3480
- **fu u 4 duv-u** -. ¿Rkikyygx·č ot Rut Txkir|jkj Qkgy|xky Txu'oyouty ot Forgzkxgr Mil'kyzs ktz Xxkgzoky=Xnk Miljogt Gutzxoh|zout.89*5+Rkznkxrgtjy Milzkxtgzoutgr Pg" Vk'ok"*4242+*Wkxotmkx+695/7230
- fu u 4d uv-u -. gtj T| ynqgx Etgtj. čGu' oj/3;. M1j og. gtj M1' kyzux/Vzgzk Hoyv| zk Wkzzrks ktz=[or M1j og hk Ehrk zu Hklktj ozy T| hroi L kgrzn Q kgy| xkyC 4: *3+Eyog Tgi oloi Pg" Vk' ok" *4242+*Vu| zrkj mk+447/4690
- fu u 4 duv-u-. čGuʻoj/3;. Majoog gtj Majookiz I-vxuvxoogzout=Myznk Turoik Tu"kxy Huizxotk g Vkrooghrk Hklktik Cč 35*3+Gutzks vuxgx Eyoog Exhozxogzout Nu|xtgr *4242+427/44:0
- fu u 4d uv-u -.gtjT|ynqgxEtgtj.ðtvljogtGu|xzygtj ForgzkxgrNtl'kyzsktzXxkgz: Exhozogzoutč6*4+NtljogtPg"

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- fu u 4 duv u . čR gzout gr Wki | xoz l ikv zout ot znk Kkt kxgrEmxkks kt zut Xgxolly gt j Xxgjk *KEXX+gt j Mtjog/ Tgqoyzgt Xxgjkč76*6+Nu| xt grul [uxnj Xxgjk 4242*Or| "kx+ 865/8870

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- Y 4 g y u. čGros gzk Gngtmk gtj GSZNH 3; NalvroigzoutyluxVkykgxinčgzznk[khotgxut o.Nalvroigzouty ul znk vgtjks oi ut rg" (jk'kruvsktz gmktjgy uxmgtyoykj h·znk Rkryut Qgtjkrg Yto'kxyoz·. Tuxz Iroighkzn.Wu|zn Elxoigut: Hkikshkx42420
- Y 4 g y u. čit'oxuts ktzgr Txuzkizout ot Exskj Gutlroiz=E Pkmgr Etgr-yoyčgz znk Mizkxtgzoutgr [khogt x ut oXnk Tgting Fnuuzg (gs v? Mizkxtgzoutgr L | s gtozgxogt Pg"=Et Mizxotyoi Vkrgzoutynov uxmgtoykj h-Vgpol Kgtjno Rgzoutgr Pg" Ytolkxyoz·.utSizuhkx4.42420
- Y 4 gry u. čGros gzk Gngtmk Wirgh jyč gz znk EHF Vkmoutgr Ggvgioz: Hk'kruvs ktz Xkintoigr Eyyoyzgtik Wzwktmoznktotm Ggvgioz: luxlt'oxuts ktzgrPg" of znk Eyog/ Tgioloi Hk'kruvotm It'oxuts ktzgrPg" Gngs vouty Xxgot/ znk/XxgotkxyTxum.gs. Mij og 44/4: Ru'ks hkx42420
- O- ux4b uzyy. čítlzký j oyi ovrot gx: Hogrum, k ot znk [uxrj



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Y 4 g y u. čGut'k tzout ut Fourumoigr Ho'kxyoz gtj Ntljomktu| y Gus s | tozoky gz znk g Zgr| k Ejjkj Gu| xyk zozrkj "It'oxuts k tzgr Ku'kxtgtik" uxmgtoykj h znk Zo'k k ggtgtjg Winuurul Pg" gtj Pkmgr Wzljoky *ZWPPW-ul Zo'k k ggtgtjg Ntlyzozlzk ul Txulkyyoutgr Wzljoky *ZNTW-čoy uxmgtorotmut Njtk44.42420

Y 4 g y u 4 ð tvlzkrrkiz|gr Txuvkxz vormzy gtj W∤yzgotghrk Hk'kruvs ktzčgzznk Mtyzoz|zk Pkiz|xk Wkxoky. uxmgtoykj h∙znk XIVMWinuur uIEj'gtikj Wz|joky. Rk" HkmoutJkhx|gx 7.42420

O- ux4 buzyy. & /kl| mkk Txuzkizout of Mijog of Tuyz/ Kruhgr Gus vgiz ut Vkl| mkky= Mizkmxgzofm Mijog "ozn MizkxtgzoutgrL|s gtozgxogtoys čSxmgto-kj h- Mijogt Pg" Miyzoz|zk. & GLERKMIK GSRXSYVWSJ MIXIVREXMIREP VIJYKII PE[ERH XLI MIHMER TSWAMSIRČRK" Hkmo Jkhx|gx: 23.4242



O -y uwaxy wuw- y y y

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Y 4g y u. Mrlzkx' ok" kj ut It' oxut s kt zgr Myy ky lux znk Gus vgxgz' ok Pg" I Rk" y rkzzkx Qgngxgynzxg Rgzout gr Pg" Ytókxyoz·. E | xgt mghgj ut Wkvzks hkx 4; . 4242 Zur3 Myy k 4 v v 3 4/3 70

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O- ux 4 b uzyy 45 y y HR y Wx u yyx QOO4 b df 4 b f QM M1 j c_0 Xu j c_0 . Ngt | c_0 Xz 32. 4242. nzzv y=1" " " 0t j c_0 0t 10t j c_0 1yzux 1k-v kxz/ 0t" / j uky/ 0t j c_0 1/4 kkj /i c_0 yz/t xi /3857887/4242/23/32

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Qujkxt Hovrus gi·. Hkiks hkx 33. 4242.
nzzvy=1s ujkxtjovrus gi·0k| 142421341331n| s gt/xomzy/muhgr/vgtjks oj/znk/vurozojy/ul/xkyvutyk/gtj/znk/xurk/ul/znk/| t nxi 1

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g xy Ow-yyy

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fu 4Pu u duux *WEY1PW1*T+14238125+"gyg"gyjkj TnOHO*znk Hkmkk ul Huizuxgzk ul Tnoruyuvn ot Pg"+ut znk zuvoi ðt√l vrks ktzgzout ul liutus oi. Wuiogr gtj G|rz|xgrVormzydt Rkvgr=EPkmgrWz|j·čETnOHO|tjkxznk y|vkx'oyout ul HxORglkkyEnsgj.JPWWEYut Qg·3;.

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Faculty of Life Sciences & Biotechnology

Xnk kgx 4242 yzgxzkj "ozn g ruz ul k−iozks ktz gtj ktzn | yogys OJPWF yzgxzkj ozy xkm l rax gi gj ks oi v xumxas gtj ngj z" u yv ki ogrrki z xky h· HxOY tj | xzoHgy. Y R H Polk Wiloktiky. Fgzzrk Kxultj. [E. YWE (Gnokl Qkjoigr Slloikx gtj Gngoxs gt ul Wioktzoloi Ej'oyux Fugxj. EWLE R | zxozout. GE. YWE. gtj HxO Wutgs Hngs qpg. Ytokxyoz zygrotog s Jxkoh xm. Hkv gxzs ktzul Xnuxgioi Wyxmkx. Hologout ul Ggtikx Vkykozin. Fxkoyginkx Wzx0337. 9;328 Jxkoh | xm Kkxs gt ∙ 0Ey "k gv v xuginkj znk s utzn ul Q qxin 4242. znk | t v xki kj kt zkj v qt j ks oj ul Gu' oj /3; yz√, iq Mtljog gtj JPWF ngj zu iruyk ozyrghuxgzuxoky gtj znk i rgyyxuus zkgi not m; gy v kx znk nuyz i u| t zx· čy m| oj krot ky0 Ey znkxk "gy t u yomnz ul xkuvkt ot mznk Yt okxyoz. JPWF yzgxzkj utrotk sujk ul zkginotm gtjiusvrkzkj znk iu | xyk lux 423: /4242 hqzin Q Wiyz j kt zy ut zos k0 WEY iutj|izkj utrotk ktzxgtik zkyz. hgykj ut nus k v xu i zuxot m y·yzks OJPWF qj s ozzkj 4; Q qyzkxyč yz j kt zy qtj 8 TnH yz jktzy ot 42420 Strotk irgyyky "kxk iutj izkj lux grrznk yz jktzy zu qkkv znk gigjks oi vxumxgs y "oznu|z j krg·0 Xu" gxjy znk ktj ul znk · kgx "nkt znk | truiq m|ojkrotky "kxk oyy|kj h znk nuyz iu|tzx...znk rghuxgzuxoky yzgxzkj l|tizoutotm lux znk xkykgxin yinurgxy.s got zgot ot mznk yuiogrjoyzgt i ot mt uxs y gtj uznkx Gu'oj/3; vxkiq|zouty0H|xotmznoyvkxouj.u|x lgi|rz⋅s ks hkxy iutzot|kj znkox xkykgxin gizolozoky h∙ m joj ot m znkox yz j kt zy znxu m v nut k lut rot k s kkzot my gtjzgqotm:rkiz|xky'og muumk1•uus rotqy0H|xotm:znoy ·kgx JPWF lgi | rz· s ks hkxy v | hroynkj s uxk zngt 42 Mazkxt gzout grv hroi gzout y. gtjuhzgot kjyk' kxgrmxgt zy gtj g"gxjy0S|x lgi|rz·s ks hkxy ng'k hkkt ykx'ot mot 'gxou|y ljozuxogrhugxjy gtj xk'ok" otm s gt|yixovzy lux yk'kxgrpu|xtgry0Xnkyz|jktzy"nuiusvrkzkjTnHj|xotm znoy·kgx koznkxpuotkj luxpuhyuxvuyz/juizuxgrvuyozoutyot uznkxiu∣tzxoky0JPWFktjkjznk⋅kgx"oznu∣zgt⋅kllkizut k zkgi noti mgt j xkykgxi n v xumxgs y0

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buyzd'u yHa6gw6P yw-	- 1
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Pu w-H 9?9

Elmgt øyzgt	6	Qgrjóky	2
Fgt mrgj kyn	4	Rkvgr	7
Fn zgt	5	Tgqoyzgt	3
Nt) og	36	WkoPgt qg	2
S znkxy	2		

bu y zd 'u yHa 6d- 67d-6R6P yw-

Pu w-H 9?9

Elmgt øyzgt	2	Qgrjóky	2
Fgt mrgj kyn	5	Rkvgr	2
Fn zgt	2	Tgqqyzgt	2
Nt) og	5	WkoPgt qg	2
S znkxy	2		

Ryu zTuw ay vy

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9	Whoht gzn Qg• sjkx	TKMQIV. Gngt j omgxn. Mj og 3;;;	Txulkyyux	Ms t urum
9	Vod Kglx	RgzoutgrMryzoz zkul Mas turum. Rk"HkmoMrjog 4223	Txulkyyux	Zoxurum = Luyz/Tgznumkt Mizkxgizoutygtj jk'kruvot mgtzoʻoxgrygmgotyzLMZ/3
9	Vot quu Hk' o K vzg	Hkvgxzsktz ulʻuurum.Fgtgxgy Lotj Ytoʻkxyoz. Zgxgtgyo.Mijog.4227	Eyygyzgt z Txulkyyux	Txuzkot Wioktik=Txuzkot Itmotkkxotm It∙-s urum gtj Hx mHoyiu'kx-
	TxozoWg-kt g	RgzoutgrMryzoz zkul Mrs turum. Rk"HkmoMrjog 422:	Eyyoyzgtz Txulkyyux*WK+	GnksoigrFourum =Txuzkusoiy. Qkzghurusoiy(Qurki rgxQkingtoysy ulnuyzvgznumktotzkxgizoutyot s·iuhgizkxogrjoykgyky
<u>E</u>	Etgtjg Q yzglo	TnH Mizkxt gzout gr Gkt zkxluxKkt kzoi It mot kkxot mgt j Fouzki nt urum . Rk" Hkmo Mij og. 4232	Eyy o yzgt z Txulkyyux*WK+	TrgtzQurki rgxFourum 1Ehouzoi Wookyy Xurkxgtik of vrgtzy
夏	Vg'oWngtqgx Eq tjo	Yto'kxyoz∙ul Jxkoh xmQkjoigr Winuur.Jxkoh xm Kkxsgt∙.4227	Eyyoyzgtz Txulkyyux*WK+	Rk xujkmktkxgzoutgtjMnllrgssgzout otznkhxgot
9	_ hgxgp Tuqngxkr	Gnuy t Ytókxyoz·.K"gtmpl. Vkv hroiulOuxkg. 422;	Eyyoyzgtz Txulkyyux*WK+	Ggtikx Fourum . Stiumktoi Eizo'oz∙ul Txuzkot Mizkxgizouty ulgrxkgj∙ kyzghroynkj Fgoz Stiuv xuzkoty

8	E @OOVOK uhot gzn	Tn 0H Fouzkinturum. Mijogt Miyzoz zkul Xkinturum Gnkttgo Mijog 422:	Eyyoyzgt z Txulkyyux	Fouvxuikyygtj Fouinks oigrItmotkkxotm FouItkxm gtj Zgr k/gjjkj vxuj izy
	Tgt qgpO s gx Koxo	RgzoutgrYto'kxyoz- ulWotmgvuxk. Wotmgvuxk.4234	Eyyoyzgt z Txulkyyux	Rut/iujotmVRE.Stiurum gtj Wex iz xgrFourum

Oux 7V 7g ywu f yw'

U v u −402f = Fkyz Vkykgxin Tgvkx E"gxj = |tjkx znk znks k ul Mij | yzxogr Fouzkinturum ot znk Mizkxtgzoutgr Gutlkxktik ut Jxutzokxy ot Mij | yzxogr Fouzkinturum *MoLJMI+42420

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U u fR=N*1' ozkj zu Eiz gy g Vkyu| xik Tkxyut ot znk Strotk Vklxkynkx Gu| xyk ot Polk Wioktik ≕W tznkzoi Fourum uxmgto∘kj h·L|s gt Vkyu|xik Hk'kruvs ktz Gktzxk. Tz0 Vg'oyngt qgxWh|qrg Yto'kxyoz·. Vgov|x GK0

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*osaPoyzkj gyg Wioktzoyz ot Ggtikx Fourum h·[nu oy[nu ot Wioktik. Xkinturum gtj Miltu'gzout ul Rkvgr. 4242. iumkizkj gtj v|hroynkj h·Rkvgr Eigjks ·ul Wioktik gtj Xkinturum 0

gu y u4 fZ=M1jogt Rgzoutgr Wioktik Eigjks⋅*MNWE+ WktouxWioktzoyzE"gxj*Jxus Jkh 4242+

jy 'u 4gZ=Ku'kxtotmFuj⋅s ks hkx Vgs PgrEtgtj Gumkmk.Ytoʻkxyoz•ulHkmo

U u u x Ty – w zy yx y vy z –y Tuw

O x 4 fg ôttl' kyzomogzotm znk xurk ul k-umktu| y EXT otigtikx s kzgyzgyoyč Gu| tior ul Wioktzoloi gtj Mij | yzxogr Vkykgxin *GWM+ Ku'kxts ktz ul Mijog. 4239/4242. MiV 409 s omout

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Itmotkkxotm Vkykgxin Fugxj. Hkvgxzs ktz ul Wioktik gtj Xkinturum. Ku'kxts ktz ul Mijog. 4239/4242. MRV 804; somout

O x 4 fg ot Word rich ikm gtks og gtj ozy iuk-oyzktik "ozn grvng gtj hkzg zngrgyyks og ot g iunuxz ul otjomktuly Xngxl vuv|rgzout ul Rkvgr=Mslvroigzouty lux znk Wulzn Eyogt xkmout. Mrlyzoz|zk lux Wulzn Eyogt Wzljoky. Wulzn Eyogt Yto'kxyoz: .4238/423; .YW/637.222

U 4dZ6d – v ruxk xkm| rgzout ult| i rkgxxkik v zuxgizó oz htut/iujotmVRE ot u'gxogt Ggtikx/OVgs grotmgy"gs oVk/ktzx: Jkmu"ynov/HFX/MHN2.423;/4246.MIV60"s omout

U 4 dZ6 dl – vruxgzout ul surki | rgx j·tgsoiy ul kvozxgtyixovzusoiy ot F/Gkms gromtgtiokyOVW/K/W/VF/HWX. 423; /4243.NRV 502 somout

U u4 fR čHk'k ruvsktz ul'/z∙vk tkx'k gmktz n-jxur•otmkt•-skčPolk Wioktik Vkykgxin Fugxj. Hklktyk Vkykgxin gtj Hk'kruvsktzSxmgto-gzout. Ku'kxtsktzul Ntljog. 4239/4242. NtV4096somout

U u4fR olyk jkyomtotmul hgizkxoogrktjuin ozocigyk lux ktngtikj gtzol∣tmgr gizoloz-č Wioktik Itmotkkxotm Vkykgxin Fugxj. Ku'kxts ktzul Moljoog. 423:/4243. MolV 607 somout

d -uy4nf ot/urk ul Txuyzgzk X|s ux S'kxk-vxkyyout 3*TXSZ3+ot LuxorutzgrXxgtylkxulFougizo'k Qurki|rky'og I-uyus ky ot Fxkgyz Ggtikx Gkrry gtj ozy Grotoigr os vroigzoutčlQVEjnuiTxupkiz.NeljogtGu|tiorulQkjoigr Vkykgxin.4242/4245.NelVO7O38s orrout

d -uy 4 mmf d*M'kyzomgzotm gtj 'grojgzout ul znk surki|rgxskingtoysulYRERMskjoiotky ot 'ozxugtjot 'o'u lux znk zxkgzsktz ul Ezuvoi Hkxsgzozoyč GGVYQ. QotoyzxulE_YWL.M1jog,4242/4245.M1V05089somout

gu y u4 d ôth' kyzomgzotim J∣tizoutgr Vurk ul Tur-qkzojk Qujol-otim lt•-s kyotiQ-iuh gizkxoogr Fourum čWioktik gtj It motik kxotim Vkykgxin Fugxj. Hkvgxzs ktz ul Wioktik gtj Xkinturum. Ku'kxts ktz ul Mijog. 423;/4244. MRV 707 somout

jy 'u 4-gZ. d-lk'k ruvs ktz ulg ru"/iuyz jogmt uyzoiy vrgzluxs lux znk ojktzoloigzout ul'oxgr HRE |yotm GVMNTV1Ggy35g y·yzks . Hkvgxzs ktz ul Fouzkinturum. 423:/4243.MRV904s omout

jy ' u 4 gZ. cHk' kruvs kt z ul j og mt uyzoi y gt j k-vkxos kt zgr znkxgvk| zoi y | yot m GVMMTV/h gykj zki nt urumoky. Hkv gxzs kt z ul Fouzki nt urum . 4242/4245. MTV 50597 s or rout

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fy y HTkkxNW okt zoloi Vkv uxzy.Zoxurum

a uz 40H

Owuxy wSx ulznkpu∣xtgrTPSWStk

fy y y ul TPSWStk. Wioktzoloi Vkvuxzy. Jxutzokxy ul TrgtzWioktik

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fy y y luxznk Nu|xtgry. ott'oxuts ktzgrXu-oiurum gtj Tngxs giurum č oNu|xtgr ul Qurki|rgx Kxgvnoiy gtj Qujkmotmčgtj E∈vvrokj Qoixuhourum gtj Fouzkinturum o⊓

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Q–yz Sx H Mizkxtgzoutgr Nu∣xtgrul Qkjoiotk gtj FouskjoigrWioktiky

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Oyayvy – zbu u7Wyu uPxy

O x 4fgH

Qks hkx Wuiokz lux Rk | xuyioktik. YWE

Qks hkx Mizkxtgzoutgr Fxgot Vkykgxin Sxmgtorgzout. Jxgtik

Polk Qks hkx Mijogt Eigjks · ul Rk | xuyioktiky. Mijog Polk Qks hkx Wuiokz lux Rk | xuinks oyzx Mijog. Mijog

Uu 4f H

Qks hkx.Wuiokz ul FourumoigrGnks oyz.Mujog

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Qks hkxul Ouxkgt Wui dxz- ul Xu-oʻurum

Iznoigr Gus sozzkk skshkxul Rgzout gr Pókx Hoykgyk Fouhgt q.Rk" Hkmo Mijog

LkgrzngtjWioktikl-vkxzygtjvxkyktzkxgygm|kyzot ErrMnjogVgjou.RkvgroTxumxgssk0

ljozux ot Gnoklul Mizkxtgzoutgr Nu∣xtgrul Qkjoiotky gtjFouskjoigrWioktiky

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Es kxoʻgt Wuiokz·luxQoʻxuhourum.YWE Txuzkus oʻyWuiokz·Mijog.Mijog Xnk Eyyuiogzout ul Qoʻxuhourumoyzyul Mijog.Mijog

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Es kxoigt Eyyuiogzout luxznk Wz|j ⋅ ul Polkx Hoykgyky. YWE

d v wu

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d – **u y mf**. gt j Tgt j k· Z. å/RE Tur·s kxgyk=Xnk Qgyzkx I – ki | zuxå) G| xxkt z Wzxgzkmuky ot Fouzkint urum gt j Fouxkyu| xi k Xkint urum Zur| s k 40 WFR; 9: /; 5/:; : 38/:: / 6. kFuuq WFR; 9: /; 5/:; : 38/:; / 38/:; / 38/:; / 38/:; / 38/: 38/: / 38/: 38/: / 38/:

d - **u y mf**. Putk FE. Ogxt g WOP. Ens gj. J. gtj. WhgnoR. & Xnk Fourum . It mot kkxot mgtj. Ev v roj gzout u I GVMWTV1GEW

Wyzks & G|xxktz Wzxgzkmoky ot Fouzkinturum gtj Fouzkyu|xik Xkinturum Zur|s k 401WFR; 9:/;5/:;:38/::/ 6.kFuuq WFR; 9:/;5/:;:38/:;/3.42423yzkj ozout 0

O wy Y u

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O x fg, Oti-umkt u| y EXT s uj | rgzky v xuyzgmrgt j ot 14

*TK 14+ xkrkgyk ot s gi xuv ngmky znxu| mn y| yzgot kj
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H|hk·VG. Fot zg/Ergs Rg·s ox gt j **Uu f**, *4242+*s ol/372/s kj ogzkj ot i xkgyk ot m|i uyk|vzgqk ot LNZ ot lki zkj i krryčNu|xt gr ul Qkj oi gr Zoxurum 0 Hki 460 j uo=32032241ps '048977

VgoQ._|'xgpOG gtj**Uu f**, *4242+čG|xxktzXnkxgvk|zóiygtjTxuvn·rgizóiygmgótyzGSZNMI/3; ÖNu|xtgrulEtzóloxgrygtjEtzokzxu'oxgryOM/vxkyy

Vghotjxg OOQO Hngxs ktjngx OOgtj **U v u -4 OZf**. &Foun-jxumkt vxuj | izout lxus lx| oz "gyzk h-Gruyzxoj oj s yzxgot FSL5čVktk" ghrk ltkxm. Zur/375. vvO358:/3599. 4242

Vghatjxg OOQ 0 Mlgz. XOJO gtj **U v u -4 OZf**. čXnkxs uyzghrk. yur'ktz y| xlgizgtz xkj | i ot m gmktz gtj i nkrgzux xkyoyzgtz grvng/gs·rgyk lxus Fgior| y yzxgot NAX32: = E y| ozghrk i gtj oj gzk ktghrky utk/yzkv lkxs ktzgzout ul "gyzk vuzgzu lux norm h| zgtur gtj n·j xumkt vxuj | i zout ô[gyzk gtj Fous gyy Zgruxo gzout . HS NAS2032291y3486; /242/23239/33/38.4242

Q | qnkxpkk W **U u4 f R**, 0 & xmgt uvnuyvnux | y R kx' k Emkt zy=X vky. Xu-oi oz . gt j Xxkgzs kt zyöNXu-oi ur04242 Wkv 44.44242=5229; : 60 j uo= 32033771424215229; : 60 TQ N1= 5524; 358/TQ GN1=TQ G9749; 24

Luyygot QW H | zzg VO. Q | xgroj ngx O. **U u4 fR**, 0 čHki xkgykj gyi uxhoj gi oj houy tznkyoyot xkyvutyk zuTQWK ot znk vxk/v | hkxzgr lks grk xgz u' gx čiVky Zkz W o04242 Evx 67353=37/420TQ M = 5449:; 7; 0

Vgznuxk EW Wgxqkx E. **U u4 fR**,0 čľxuj i zout gtjos s | tumktoio: ul J | hi y | h | tozvxuzkot xkj kyomtkj lxus HIRZ kt' kruvk vxuzkot člevvrQoixuhour Fouzki nt ur04242 Qgx520TQMI=5445474; 0

Fgzxg. R. Vgpkt j xgt. Z. [gjo MPgzn"gr. E. H|zzg. VO. Knuyn. TG. **U u4f R** gt j Rgzn Q0 åWtznkyoy. i ngxgizkxo gzout. gt j gt zov rgys uj ogr klloigi · ul y|rlut gs oj k-gvvkt j kj a3.4.5c-zxog•urkyð Nu|xtgr ul Lkzkxui · i roi Gnks oyzx·. Ngt 4242.5:::?3/340

Emmogx" gr.WQ s gx.E.Ngot.Q.W j gt.NWotm.O.O s gxo.W a uz 400 & G/zkxs ot gm. Itiuj kj Tkvzoj ky *GITy+gxk vuzktzogrs kj ogzuxy ul ghouzoi yzkyy xkyvutyk ot vrojtzyło. Tn. yourum gtj. Qurki | rgx. Fourum ul Trgtzy. 4242 Siz448*32+423; /4255

Ngot. Q. Emmogx" gr. W R gmogx T. Xo" gxo V. a uz 400 € H/rgizgzk j kn·j xumkt gyk lxus xoik oy ot'u'kj ot i ut lkxxot m zurkxogt i k zu s | rzovrk ghouzoi yzkyyky h·s gotzgot ot m i km/rgx nus kuyzgyoyð Wiokt zoloi Vkvuxz. WioVkv 32. 34: 57*4242+

Rgmgx T. O|s gx E. Ngot. Q. O|s gxo W **a uz 4 O**0 o*Kktus k/" ojk gt gr·yoy gt j zxgt yi xov z v xulorot m ul TWOV mkt klgs or s ks hkxyot S x • gygzó g*ÖTPuWSRI.TPuWSRI 37*9 + k245856;

Fgzzn. V. Ngot. Q. Ojs gx E. Rgmgx T. Ojs gxo Wauz 4000 čt4- jkvktjktz mr. u-grgyk Mvrg-y znk s gpux xurk ots kzn·rm·u-grjkzu-oloigzout gtjygrotoz yzkyy zurkxgtik otvrgtzy&TPuWSRI. TPuWSRI 37*7+k24556;5

Ogxt g. WOP. Put k. FE. Ens gj. J. Whgno R. gt j **d -u y 4nf** 0 Ot ui qj u" t ul GWR O4 y| vvxkyyky QHE/QF/453 i kmy mxu" zn. ot j | i ky gv uv zuyoy. ot noh ozy s omxgzout gt j ot 'gyout 0 | GPM Nu| xt gr 3; *Wkvzks hkx+3433/480 nzzvy=1j uoduxn13208939; 1k-i ro4242/45850

Ongtgr. PR. Wngxsg. OV. Ogrg|to WOgtj **d -uy4mf**0 Œyykyysktzul Tn-zuinksoigr. Etzou-ojgtzgtj Etzosoixuhogr Eizolozoky ul Wusk Qkjoiotgr Trgtzylxus Ogyqojoyzxoizul RkvgrðEskxoigt Nu|xtgrul Trgtz Wioktiky. Zur 33 Ru;. Wkv 42420

Worm. RO._gjg'. TR. O|shngx EE.gtj **d -uy4mf**0 Œtzoigtikx vuzkti· uliuvvkx*NWHiusvrk-ky ulznouyksoigxhg•utkyWoNu|xtgrul Mcluxmgtoi Fouinksoyzx. nzzvy=11juo0uxm132082381pMpotuxmhou042420833356.33 N|tk42420

GnnkzxoHV.GnnkzxoE.WhgnoR.XoʻgxoWOgxtg.WOP.Pgsg. Hgtj **d** - **u y 4 mf** 0 ŏVygxog zkt | ovky Tkiq. gtktzus uvgznumktoi l|tm|y lxus Hgxotkrotm Los grg-g=l'gr|gzout ulznkot/ozxugtzovxurolkxgzoʻkgtjgtzou-ojgtzvuzktzogrulozys·ikrojsk-zxgizoFQGGusvrksktzgxQkjoiotkgtjXnkxgyoky4242423:7

Ens gj. J. Wgxjkx E. Ku|x V. Ogxtg. WOP. Exuxg. T. Ogxzng. OTV gtj **d -uy 4mf** Oðrlnahazaut ul Txuyzgzk Ggtikx Gkrr



Potk *TG/5+ h· Etn·jxujon·jxugxzks oyotot *EHLE+ Fngxj "gpH0gtj **gu y u4f6Z6***4242+Yvzgqkuljogs utj znxu m Ggyv gyk/j kv kt j kt z Tgzn" g @t] GPM Nu | xt gr. 424273; +835/83;

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Rgg. J. Ens gj. J. Put k. FE. d -u y 4mf 0 J | ruxog. ROs. Jr| uxog.WVg'oingtjxgt.Q. Tgzzghnoxgs gt.P.WhgloWgtj Whojngx _gx Q@tHkyomt gtj y-tznkyoy ultk" kx 3.5.6/ u-gjog•urk gtj 3.4.6/zxog•urk hgykj Xuvyktzot gtgrum ky gy gtzo/vxurolkxgzo/k gmktz zgxmkzotmz|h|rotoZur|sk;7. Ngt | $gx \cdot 4242$. 32573; Fourty and Gnks oyzx 0 nzzvy=11j uo@uxm132032381o@houuxm0423; 032573; 0

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d -u y 4mf 6Zoz gr Xgrq gy Tgt krroyz & kgrzn ul Rkvgro Qomxqtzot Mijoqj|xotm GSZNHI Tqtjksoi@i4tj Kruhqr Rkv groLkgrzn Gut Ikxkt ik. Sxngt oykj h RVR Kruhgr. 3; zn Wkvzks hkx4242

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a uz 406 Ntl' ozkj zgrq. čH/rgi zgzk j kn·j xumkt gyk=E ixliogrius vutktz ul Qkzn·mm·u-qrikzu-oloigzout ot vrgtzyłó 63 yz Qkkzotm ul znk Trgtz Xoyy k G rz kk Eyyui ogzout ul Mij og. Tgzogrg. Mij og. Jkh 8/: .4242

a uz 406Ntl'ozkj zgrq.čoti/jkvktjgtzKr·u–grgykMgtj H/Pqizgzk Hkn·j xumkt gyk vrg·ix|iogr xurk ot s kzn·mm·u-grjkzu-oloigzout gtjghouzoiyzxkyyzurkxgtik@t Is kxmot mXxktjy ot Trgtz Wioktik Vkykgxin *1 XTVW 4242+ G zzgi q. S j oyng. Nt j og. Q gx3/5.4242

gu y u4 dg6 Ntl'ozkj zgrq. ŏ|tizoutgr gtj Wzx|iz|xgr Jrk-chασο ul X·vk NWMTur-qkzqik W tzngyky αt Q · i uhgi zkxoj s s gxot | s č Q · i uhgi zkxogr nkzkxumkt koz· gtj nuyz zoyy k zxuvoys *oky42/28+, Rk" Hkmo Mijog. Jkhx qx 33 37.42420

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U v u -4 OZf 6 čGut yurgi gzkj houv xui kyyot m lux houn j xumkt v xuj | i zout l xus l x| oz "gyzk h · Gruyzxoj o∫ s yzxgot FSL5@iMzkxtgzoutgrl/Gutlkxktik ut Jxutzokxy ot Mj | yzxogrFouzki nt urum *MJ MX4242+. N r 49/4; . 42420

U v u -4 OZf6 € tu'kringuzxuvoi gmktzy/xkyoyzgtz Fgiorry grvng/gs · rgyk lgiorozgzky j oxkiz lkxs ktzgzout ul "gyzk vuzgzu lux nomn rk'krul h∣zgturgtj n-jxumkt vxuj | izout@iMzkxtgzoutgrl/Gutlkxktik ut Jxutzokxy ot Mj | yzxogrFouzki nt urum *MJ M7X4242+N r 49/4; .42420

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- 30 TnOHOznkyoy I'gr| gzout gygt k-zkxtgrI-gs otkxul Qy Rkng Ogz. gr. Hkv gxzs kt z ul Tngxs gi urum ul Fouzkinturum. Ngs og Lgs jgxj Ytókxyoz ut d –vruxot mznk vuzkt zogrul Qkyktin⋅s gryzks ikmyzu zgxmkzvgtixkgzórigtikxyzks ikmy
- 40 Xgrqut Err Mijong Vgjou. Rkv gro Wkx'oik ut Miju/Rkv gr Guuv kxgzout ot znk Gut zk-zul Gu' oj /3; .32zn Si zuhkx 42420
- 50 Milzkx'dx" ot Rojzoutgr Polk XZ Mijog ut [uxrj Ggtikx Hg. .32zn Wkvzks hkx42420
- 60 Milzkx'dx" of Flydikyy Rk" y 46 ul Rkvgrut Rkvgr Ntljogčy xkrgzoutynov j|xotm GSZNH vgtjksoi rui qi u" t.3: zn N r 4242
- 70 Mizkx'ok" ot RZMtk"y nu" zu hk yglk lxus GSZMH otlkizoutyut 5xj Evxor4242
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Ow- y y y

- **u Yu** *WEY1FN91*T+14236127+1xus Jgi | rz· ul Polk Włoktiky gtj Fouzkinturum gvvkgxkj ot znk' oʻg'uik k-gs ot gzout lux Huizux ul Tnoruyuv n· ut 39zn Jkhx gx· 4242 luxznk znkyoy. zoznkj d –vruxot mznk xurk ul H/rgi zgzk jkn-jxumktogyk ot ghouzoi yzxkyy zurkxojtik ulvrojtzy 'ooj mru – grgyk v gzn "g· | t j kxzn k y | v kx'oyout ul Hx0Et gt j g Q | yzglo gt j ngyhkkt j ki rgxkj y | i i kyyl | r0
- a 6f -u Z u R u *WEY 1FN3 *T+14236123+ lxus Jgi | rz·ul Polk Wioktikygtj Fouzkinturum gvvkgxkj ot znk 'oʻg'uik k—gs ot gzout lux Huizux ul Tnoruyuvn∙ut :zn Nitk 4242 lux znk znkyoy, zoznkj oNtikyzomojzout ul znk vn-yourumoigrqtj vxusoyi | u | y l | tizouty u Is qs s groopt yktkyiktik s gxqkx vxuzkot 52*WQT52+ |tjkx znk y | vkx' oyout ul Hx0 Votquu Hk' o K | vzg gtj ngy hkkt jkirgxkjy|iikyyl|r0
- a 6 f u Q-u x u R vy *WEY 1F N3 *T +14236128+ lxus Jgi | rz· ul Polk Woktikygtj Fouzkint urum gvvkgxkj ot znk 'oʻg'uik k–gs otgzout lux Huizux ul Tnoruyuvn∙ut ;zn Nitk 4242 lux znk znkyoy. zoznkj ol/km/rgzout ul LNZI Txuj|izout Etj Mylkizout F·Tuzgyyo|s Gngttkry Etj QoixuVRE/372 | tjkxznky| vkx'oyout ul Txul0Voz| Kg|x gtjngyhkktjkirgxkjy|iikyyl|r0
- **a 6f u y Z u g-u u** *WEY 1F M3 *T+14236124+1xus Jgi∣rz·ulPolkWioktikygtjFouzkinturum gvvkgxkjotznk 'oʻg'uik k–gs otgzout lux Huizux ul Tnonuyuvn- ut 3; zn Nitk 4242 lux znk znkyoy. zoznkj oWomtgmotm Qkingtoys y Mi'ur'kj ot Rk|xujkmktkxgzoutJumu"otmQozuinutjxogr Gus vrky/MMtnohozout | tjkxznky| vkx'oyout ul Hx0Vg'o What qaxEq | t j cat j nayhkkt j ki raxkj y | i i kyyl | r0
- **a 6U** -ufu U *WEY 1F M *T +1423612: +1 xus Jgi | rz· ul Polk Wioktikygtj Fouzkinturum gvvkgxkj ot znk'o'g'uik k–gs of gzout luxHui zuxul Tnoruyuvn∙ ut 3yzSi zuhkx4242 luxznkznkyoy.zoznkj oHoyykizotmVurkulz·vk MWVur-qkzojk

- y tzngyk. s kzn rzxgtylkxgyk gtjy rluzxgtylkxgyk ot znk hourum uliux tkhgizkxotkgk | tjkxznky | vkx'oyoutul Hx0 TxozoWg-ktggtjngyhkktjkirgxkjy|iikyyl|r0
- **Z u fu 6** Vki ov okt z ul znk Rgzout gr Tuyzj ui zuxgr Jkmu" ynov *RTHJ+; Wioktik gtj Itmotkkxotm Vkykgxin Fugxj *W/VF+, Ku'kxtsktzul Mrljog. lux znk vxupkiz oNt'kyzomgzotm znk xurk ul oty∣rot xkikv zux yomtgrrotm ot tk| xuvxuzkizout gmgotyzvur *U+joyuxjkxy *Qktzux=Vg'o Eq tjo—90
- fuy g-u u6 dWomtgmotmskingtoysy ot'ur'kj ot tk|xujkmktkxgzout lumu"otm sozuinutjxogriusvrk–M of non-axout 0 Tn OHO g'' gxj j gzk=3: 18142420 Qkt zux=Vg' oEq|tjo0G|xxktzr· "uxqotmgygvuyzjuizuxgrlkmu" ot znk rgh ul Hx0Ko|rong Fkxzuront. Mrlyzoz|zk ul Kktkzoiy gtj Hk'kruvsktzul Vkttky. Ytókxyoz ul Vkttky. Vkttky Gkj k-. Jxgt i k0
- g-u u g4Ognxg L. Eql t j oVW*4242-0Tuyzkx Txkykt zgzout ut di–zxgikm/rgx EXT iutzxoh/zky zu"gxjy otixkgykj z| s u| x v xurolkxgzout gtj s kzgyzgyoy.:zn Mrzkxtgzoutgr Xxgt yrgzout gr Ggt i kx Vkykgxi n Gut lkxkt i k. Fgt gxgy L ot j Yto'kxyoz .Zgxgt gyo0Vki ovokt zulznk Fkyzv gvkxg" gxj 0
- R-u u b4 gu y O4 fu y Og gtj K vzg VH. oHkyomtotmul g Whuxz Tkvzojk Zgiiotk Emgotyz Hktm/k Zox y gzk/Gurruw olys ut olsk xmontm Xxktjyot Lkgrzn gtj Hoykgyk Vkykgxinč IXLHV/4242 uxmgtorkj h∙ Esoz∙ Ytokxyoz.K|x|mxqs.42znSizuhkx42420
- a x6Sv u- Z-u 4O u -u Yu 4Sy u Ru gtj Kuhotgzn Vgpgmuvgrgt. Vkyvutyk y xlgik yzgzoyzoigr uvzoso-gzout ul houn-jxumkt vxuj|izout lxus ix|jk mrikxun0 Mizkxtgzoutgr Gutlkxktik ut Mitu'gzouty ot Fouzkinturum gtj Polk Włoktiky nuyzkj h znk Hkvgxzs ktzul Fouzkinturum *MAPW+HkmoXkinturumoigr Ytokxyo: *HXY+nkrj hkz" kkt 3: /42zn Hki ks hkx42420
- O y P-u uw-u u gtj Kuhatgzn Vgpgmuvgrgt.

- Mors uhoro-gzout ul xkius hotgtz Toinog vgyzuxoy lux *EWT+utSizuhkx: gtj 44.42420 vxuj | izout ul Xxks kzky iott ghgxotg rgi i gyk0.141zkxt gzout gr Gut lkxkt i k / MPWh·znk HFX HXY. nkrj hkz" kkt 3: /42zn Hki ks hkx42420
- O u -u Yu 4Sy u Ru 4a x6Sv u- Z-u qt j Kuhotgzn Vgpgmuvgrgt. Foun-jxumkt vxuj∣izout lxus Gruyzxojo∣s |yotmix|jk mrikxur gy g y|hyzxgzk. MizkxtgzoutgrGutlkxktik MPPWh znk HFX HXY.nkrj hkz" kkt 3: /42zn Hki ks hkx42420
- **fy P** gzzktjkj oXnk; zn Ett | grGut | kxktik ul znk Mizkxtgzoutgr Gnks oigr Fourum-yuiokz∙. MGFW4242ZMXYEP ut d€jjxkyyotmznkxgvk | zoiingmktmky zumkznkx" ozninks oigrhourum čnkrj hkz" kkt Ru'ks hkx 33/35.42420
- fy P − gzzktjkj znk Rgz|xgrTxuj|iz Wioktiky "khotgxykxokyh∙ Eskxoigt Wuiokz·ulTngxsgiumtuy·č

- fy P 40 yy du y 4gu U 4U -u fu **U 4**Txozo Wg–ktg gtj Roynkkzn Emgx"gr=Zoxz|grvuyzkx vxkyktzgzout ut ol/urk ulz·vk MWV ur qkzojk y·tzngyky ot yzgzoutgx gmmxkmgzkyulQ iuhgizkxo∤s sgxot∣s ot & QFS " uxqynuv=Gnks oigr Fourum 4242/ Zozz grčnkrj hkz" kkt Wkvzks hkx5/7.42420
- fy $P 4U ufu U 4O yy du y 4 Mgs <math>\alpha K \infty$ Qutong O|s gxo Txozo Wg-ktg. Roynkkzn Emgx"gr=Tuyzkx vxkyktzgzout ut di-vruxotmznkvn·yourumoigrxurkulX·vkMM/ vurqkzojky-tzngykyotQ·iuhgizkxo∫ssgxot∣s otöttjog IQFS y⋅s vuyo∮s čut oQ⋅iuhgizkxogrLkzkxumktkoz⋅gtj nuyz zoyy k zxuvoys RMMMSKIF.Rk" Hkmo Mijog nknj hkz" kkt Jkhx gx 33/37.42420





Department of Computer Science

Faculty of Mathematics and Computer Science

Xnk Hkv gxzs kt zul Gus v | zkx Wiokt i k. kyzghroynkj h·znk Yt oʻkxyoz·ot 4232. oyut kul znk suyz'ohxgt zj kv gxzs kt zyul znk Jgi | rz·ul Qgznks gzoiygt j Gus v | zkx Wiokt i koʻXnk j kv gxzs kt zot ozogzk j ozyzk gi not mgi zoʻozokyznxu | mn gv uyz/mxgj | gzk v xumxgs sk ot Gus v | zkx Wiokt i k ot 4232. gt j rgzkx oz yzgyzk j TnH v xumxgs sk ot Gus v | zkx Wiokt i k ot 4232. gt j rgzkx oz yzgyzk j TnH v xumxgs sk ot Gus v | zkx Wiokt i k ot 42350 Jux kgi n v xumxgs sk. znk j kv gxzs kt z lurru" y g | t owlyk | v/zu/j gzk i | xxoi | rl s"ozn znk gos zu kwlov znk yz | j kt zy"ozn znkuxkzoi gr gt j gt gr. zoi gr yqory gy"kr gy znuxu | mn qt u"rkj mk gt j k-v kxzoyk ot znk rgzkyz yzgzk/ul/znk gxz zki nt owlyky ot NM yu zngz znk·iu | rj"uxq i us v kzkt zr·ot j oʻkxyk gxkgy0

Okkvot mot sotj znaz znk to kxyoz jkvaxzsktzy najk znkox u"t xkyvutychoroz zu hxotmulz ygorki gti ius v kzktz v xulkyyout gry zu laik mruhar inarrkt mky "ozn znk tk" ot yomnzy ul v xuhrks /yur' ot m ghorozoky. znk Hkv gxzs kt z ul Gus v zkx Włoktik. gjs ozzotm yz j kt zy lxus gmrWEEVG tgzouty. oy xktjkxotmy | in gt os vuxzgtz xkyvutychorcz· h· vxuj | ict m Gus v | zkx Wicktik vxulkyyoutgry ius vkzktz ktu|mn zu l|rlom znk otj|yzxoogr gtj xkykgxin tkkjy ulznk WEEVG tgzouty0Xnk s oyyout ul vxuj|iotm ghrk gtj iusvkzktz Gusv|zkx Włoktik v xulkyyout gry ot znk j k v gxzs kt z oy hkot mgi nok' kj j | k zu znk ot'ur'ks ktz ul nomnr jkjoigzkj gtjius vkzktz lgi|rz∙s ks hkxy0[k qxk iutzot|u|yr∙v xumxkyyotm ∙kqx glzkx·kgxgy"k gxk yotikxkr·ius s ozzkj zu"gxjyznk mugr ul vxus uzotm tuz utr znk jkv gxzs ktz h z gryu znk otyzoz zout gyg "nurk0S | xyz jktzyng'k hkkt ghrk zu s gak a s axa lux znks ykr'ky h∙znkox ykx'oiky ullkxkj ot jollkaktzvojazyulank" uarjuthknogrlulankoxtojaout0

Xu yzxkt mznkt xkykgxin gizó azaky ul znk | tókxycz. znk j kvgxzs ktz ngy otyzoz| zkj Huizux ul Tnoruyuvnvxumxgs s k "ozn gt kgxr·k-ozuvzout "ozn QoTnoroHkmxkko Xu ixkgzk gt gvvxuvxogzk k-vkxos ktzgrykz| v lux znk vxuvuykj j uizuxgrxkykgxin vxumxgs s k gt j znk k-oyzotm s gyzkxyčyz| j ktzy ktzkxotmotzu znkox znkyoy i us vut ktz znk j kvgxzs ktz ngy luxs | rgzkj g i us vxknktyó k rghuxgzux·vrgt "ozn ut k mkt kxgr/v| xvuyk i us v | zot m

rghuxgzux gtj yk'kt yvkiogro-kj rghuxgzuxoky.otir|jotm Lgxj"gxk (Homozgr Wyzks y Pgh. Ej'gtikj Etgr-zoiy (G-hkx Wki|xoz-Pgh. Vkgr/Xos k Wyzks y Pgh. Qginotk Pkgxtotm Pgh. [oxkrkyy Rkz"uxqy (Quhork Gus v|zotm Pgh.Molzkrromktz Wyzks y (Xk-z Etgr-zoiy Pgh. gtj Gus v|zogzoutgrMolzkrromktik Pgh0

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Pu w-H 9?9

Elmgt øyzgt	5	Qgrjóky	2
Fgt mgj kyn	5	Rkvgr	6
Fn zgt	4	Tgq oyz gt 5	
Ntj og	35	WkoPgt qg	2
S znkxy	2		

bu y zd ' u yHd-RQ y gwy wy

Pu w-H 9?9

Elmgt øyzgt	4	Qgrjóky	2
Fgt mgj kyn	6	Rkvgr	7
Fn zgt	2	Tgqqyzgt	2
Nt/j og	44	WkoPgt qg	2
S znkxy	2		

Ryu zTuw ay vy

	bu y	d–ROzzu .myu	Ry'u	Oyuzgywuu 7Wyy
	Txgt gh C0 Q n xo	Mijogt Miyzod zkul Xkinturum *FLY+ Mijog.4227	Txulkyyux (Hkgt	Gus v zgzoutgrMizkmomktik.W/kiogm- J ••• Wyzksy.I'un zoutgx-Ermuxoznsy. Vkgr/XoskWyzksy
	Q ngs s gj Eh rggyn	Mijogt Miyzod zkul Xkinturum Hkmo Mijog.4229	Eyyui ogzk Txulkyyux	Hgzg Etgr-zoiy gtj Qototm Qginotk Pkgxtotm WuiogrGusv zotm Wktzosktz Etgr-yoy. Hgzg/Hxó-kt G-hkxyki xoz-
	Vkyns g Vgyzumo *t kk Onks i ngt j gt &	Mijogt Miyzod zkul Xkinturum Hkmo Mijog.422:	Eyyoyzgt z Txulkyyux	Qginotk Pkgxtotm Svzosorgzout. Wyvvuxz Zkizux Qginotky. Gusv zkx Zoyout
9	Es oz Fgt kxpkk	RgzoutgrXyotm/L g Yto'kxyoz·.Xgo'gt. Nnljog.422;	Eyyoyzgt z Txulkyyux	Hoyzxoh zkj Wyzks y. Gru j Gus v zotm Rkz"uxqWki xoz·.MzkxtkzulXnotmy. IjmkGusv zotm
•	Fopu-Gngtj Gngzzkxpkk	Xk∙v xYto'kxyoz∙. Eyygs.Ndjog.4236	Eyyoyzgtz Txulkyyuxgtj HVXKMyvok Jgi rz	Svzoigrtkz" uxqy.UuWg" gxkvxuzuiury. Svzos oigzout.Vu zotm
	Whgi noWhgxs g	Ng"gngxrgrRknx∤ Yto'kxyoz∙. Rk"Hkmo Ntjog. 4229	Eyygyzgt z Txulkyyux	Mizkxtkz ul Xnotmy *MuX+Fruiqingot. Tkxluxsgtik sujkrotmul iuss toigzouttkz"uxqy

O u x 7V 7g ywu f yw '

a – 4d u uv Z6H

ay vy4 Sx u Pux4 Evvrokj Wulz Gusv|zotm Iryk'okxWoktik0

ay vy 4 Sx u Pux4 Itmotkkxotm Evvroigzouty ul Exzoloiogr Mizkmomktik. Iryk' okx Wioktik O

Uy Sx 4 Wykiogroyy|k ut Iskxmotm Nyv|ky gtj Evvroigzouty ul X·vk/4 J|••• Wkzy gtj Wyzksy. Itmotkkxotm Evvroigzouty ul gxzoloiogrotzkmomktik *4242+ Inyk'okxWioktik0

Q-u 4 Wikiogrykyyout ut oXxktjygtjjk'kruvsktzyut X·vk/4J|••• Wkzygtj Wyzksy.J|••/MII4242*MII[GGM 4242+Krgymu".YO0

Q-u 4 Wkiogrykyyout ut "Mz ozoutoyzoi J ··· Wkzy ot

Is kxmat m Hus gat y. J $|\cdot\cdot|$ MII 4242 *WII [GGM4242+ Krgymu" .YOO

c 'u y 4 Wwkiagrykyyout ut "Gusv|zgzoutgr Mrlzkmomktik gvvxuginky lux Mrlj|yzx 602 gzznk Gxuyy joyiovrotgx (Evvroigzouty".MMGRR4242.GHWW/*MIII[GGM 4242+Krgymu".YOO

Qks hkx Mizkxt gzout gr Ej'oyux Fugxj. Mizkxt gzout gr Gut lkxkt i k ut Gus v | zot m Ej'gt i ks kt zy *MiGE 4242+ Hngqg. Fgt mgj kyn

Ov u -4a6

Qks hkx=Fugxj ul Wz|joky *Gusv|zkx Wioktik gtjEvvroigzouty+ Wz0 $Eru\cdot yo$, yč Gurrkmk *E|zutusu|y+. Nghgrv|x0

Eyyuiogzk Ijozux≔ Nu|xtgrul Ootm Wg|j Yto'kxyoz∙/ Gusv|zkxgtjMiluxs gzoutWioktiky.Iryk'okx0

fu '4f6

W yx g yu y lux ynuxz zkxs lgi|rz gj'gtiks ktz iu|xyky ut "Svzoso-gzout Xnkux. Qkznujy gtj Evvroigzouty" E|m|yz3:.4242 iutj|izkj h⋅ MM Vuuxqkk *Zoz gr+

w 5w-u lux Xkintoigr Wkyyout Myzkxtgzoutgr Gut lkxkt i k ut Wulzi us v | zot mlux Txuhrks Wur' ot m4242. nuyzki h NMN Ntli uxk *Zoz gr-10

Uy Sx lux W/kiogroyy|k of Q|rzos kjog Xuury gtj Evvroigzout y. Wkv 42420

Q-u y yy4P6Q6

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Ej pltiz Txulkyyux gz Mtlj xgv xgyzng Mtlyzozl zk ul Mtluxs gzout Xkinturum Hkmo*NNMXH+Rk" Hkmo0

Vk'ok"kj znk huuq vxuvuygrkt zoznkj o6 vzoigr W/ozinot m Xki nt urum = W ozin Jghxoi gzout gtj Evvroi gzout otRkz" uxqy lxus NSLR[NAI (WSRWPXH.42420

g-u u4g6

Wkyyout Gu/ingox lux Xkintoigr ykyyout; gz MII MizkxtqzoutgrGutlkxktikutGusv|zqzoutgrTkxluxsqtik l'gr|gzout.Nt/jog.42420

U u u x Ty – w zy yx y vy z -y Tuw

Q-u y yy4P6Q4Hkyont uls | rzo/uhpki zó ky krgyzó / oz | gr uvzoigrtkz" uxqy lux nomn/yvkkjius s | toigzout. HWK Myv odk. 4239/4244. 57 Pgqny

Q-u y yy4P6Q qtj Sqol0 Wkizk s jklxqms ktzqzout s gtgmks ktz ot krgyzoi uvzoigr tkz" uxqy | yotm s ginotk rkantatım. Miju/Navat iurrahuxazolk vxunkiz. HWW/NWTW *O uzu Y t oʻkxyoz·. Ngv gt yoj k+4242 zu 4244. 8.82.222 rgqny *Ntlj ogt Woj $k+NT_{=}4.222.222 \cdot kt *Ngv gt Woj k+0$

Sx u 7fyy ' u x fyzy yy 0 У

a - 4d u uv Z6H

Sx u Puxay vy4 Evvrokj Wulz Gus v zot m Inyk'okxWioktik0

Sx u P u x a y vy 4 l t mot kkxot m Ev v roj gzout y ul ExzoloiogrNt/zkmomktik.lryk'okxWioktik0

Uy Sx 4 W/kiogroyy|k ut skxmotm Myy|ky gtj

Evvroigzouty ul $X \cdot vk/4 \ J | \bullet \bullet \bullet \bullet$ Wkzy gtj Wyzks y. It mot kkxot mEvvroigzout yulgxzoloiogrotzkmomktik *4242+

fy y y H Xxgtygizouty ut Exinozkiz∣xk gtj Gujk Svzos oigzout.EGQ

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fy y y HVkroghoroz∙ Itmotkkxotm gtj Wyzks y Wglkz∙. Iryk'okxWioktik

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fy y y HI–vkxz Wyzks y "czn Evvroicyzouty. Iryk'okx Wioktik

fy y y HNu| xt grul Grkqt kxTxuj | izout . Iryk' okxW/okt ik

fy y y HEvvrokj WulzGus v∣zotm.lryk'okxWloktik

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fy y y H Ntlzkxt gzout gr Nu | xt gr u | J | ••• W yzks y. W/xotmkx

fy y y H J | ⋅⋅⋅ S v zos o gzout gtj Hkioyout Q gqotm W/xotmkx

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fy y H Txuikkjotmy ul znk Rojzout gr Eigjks · ul Wioktiky. Ntjog Wkizout E≕Tn-yoigr Wioktiky. W⊬xotmkx

fy y y H oxkrkyyTkxyut grGus s | toigzout y. W xot mkx

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fy y HJ → Miluxs gzout gtjltmotkkxotm Xg-rux gtj Jxgt i oy

Ov u -4a6

O wuy Sx H Nu|xtgrul Ootm Wg|j Yto'kxyoo:/ Gus v zkxgtj Miluxs gzout Wioktiky.lryk'okx0

hdQ a y vy HWMEQ Mizkxt gzout gr Gutlkxktik ut Hgzg Q ot ot m*WHQ+

hdQa y vy HMzkxt gzout grNuot z Gut lkxkt i k ut Exzoloi ogr NYIzkmomktik*NWIGEM

hdQay vy HWII1[M31EGQ M/zkxtgzoutgrGutlkxktikut Y ufyy'HWIIEiikyy [kh M/zkmomktik*[M-

hdQ a y vy HEGQ Mizkxt gzout gr Gut Ikxkt ik ut Milluxs gzout gt j Ot u"rkj mk Q gt gmks kt z*GMOQ+

hdQ a y vy H Mizkxt gzout gr Nuct z Gut lkxkt i k ut Otu"rkjmk Hoyiu'kx·. Otu"rkjmk Itmotkkxotm gtj Ot u"rkj mk Q gt gmks kt z*OQ MM+

hdQay vy HMzkxt gzout gr Gut lkxkt i k ut Ot u"rkj mk Hoyiu'kx gtj Milluxs gzout Vkzxok'gr*OHM/+

hdQay vy HMzkxt gzout gr Gut lkxkt i k ut Hgzg Wickt i k. Xkinturum gtj Evvroigzouty*HEXE+

hdQ ay vy H Eyogt Gutlkxktik ut Mizkrromktz Milluxs gzout gtj Hgzghgyk Wyzks y*EGMMW-

hdQ ay vy H Mizkxt gzout gr Gutlkxktik ut Gus v | zgzout grGumkizók Mizkmomktik *MoGGM

fy y y HMII Xxqtyqizouty ut Otu"rkjmk qtj Hqzq Itmootkkxootm:///II

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fy y HEGQ Gus v | zot mW x' k · . EGQ

fy y HWuiogrRkz" uxqEtgr-yoygtj QototmsWvxotmkx

fy y H tilux gzout Wioktiky.lryk'okx

fy y HNu xt grul Fous kjoi gr/Muxs gzoiy. I ryk' okx

fy y y H [kh Mozkmomktik (Emktz Wyzksy Et NYIzkxt gzout grNu | xt gr. NSI WTxkyy. R kznkxrgt j y

fu '4f6

hdQ y vy luxWaiTxuW4242 gt j M3GN4W4242

w-u luxWuiTxuW4242

Nu|xtgrVk'dx" dtm=NNIIzxqtygizouty ut tk|xqrtkz" uxqy. Miluxs gzout Wioktiky. Rk | xgr Rkz" uxqy. Rk | xuius v | zotm. Rk | xgr Txuikyyotm Pkzzkxy. Exzoloiogr Ntzkrromktik Vk' ok". Rk | xgrius v | zotm gtjozy gvvroigzouty. Nu| xtgruls ginotkrkgxtotmgtji·hkxtkzoiy. Evvrok jot zkmomktik. W/xot mkx0

Q zy y wyfy y HWui TxuW4242 qt j M3GN4W4242 Pu y yy406

Q-u y yy4P6Q6

O wuy Sx HWII Eiikyy Nu| xt gr*Jxus Hki 423: zu Xorr/j gzk+

hdQ a y vy HMII LTWV 4242. MII MG 4242. gt j MII KPS FI GS Q 4242

Y u fy y 'H MII 1EGQ Xxqt yqi zout y ut Rkz" uxqotm MII Xxqtyqizouty ut Guss Itoiqzouty. MIII 1S WE Nu xt gr ul Pomnz "g'k Xkint urum. MIII 1S WE Nu | xtgru | Svzoigr Guss | toigzout gtj Rkz "uxqotm MII Gus s | toigzout y Pkzzkxy. MII Eiikyy. Gus v | zkxRkz" uxqy / Iryk'okx Svzoigr Johkx Xkinturum / Iryk'okx Svzoigr WiozinotmojtjRkz" uxqotm/lryk'okx

Q zy y wy f y y 'HMII MGG 4242. MII LTW 4242. MII KPS FI GS Q 42420

g6g−u u

hdQa y vy Htlzkxt gzout gri ut lkxkt i k ut G hkx Wki | xoz ot Is kxmot m Homozogr Ixog *NOGGI HI 4242+ g Wvxot mkx GGNW Wkxoky gz K0 P Fgpgp Ntlyzoz zk ul Xkinturum gtj Q gt gmks kt z KxOR uoj g, Kg | zgs F | j j n R gmgx HkmoRGV. M j og. ut; gt j 32 S i z 4242

hdQ a y vy H4tj Mzkxtgzoutgr Gutlkxktik ut Wulz Gus v | zotmogtj ozyltmotkkxotmEvvroigzouty. MSWulzius v 4242. Gngx ygz. Gngt mg. Mj og

Y u fy y 'H MII W yzks y Nu | xt gr. MII Rkz" uxqot m Pkzzkxy. W/xot mkx Woj ngt g T| hroynkj h∙znk Mijoogt Eigjks ⋅ ul Wioktiky

Q zyywyfyy 'HMGGIHI 4242 qtj MGWulzius v 42420

ay vy – u7Wyu uPxy

a - 4duuvZ6

gy a y vy / Ntlyzoz zk ul lrkizxoigr gtj lrkizxutoiy Itmootkkxy*MII+;YWE

gy a y vy / MIII Gus v | zgzout gr Mizkmomktik *GM-Wuiokz∙.YWE

gy ay vy / Mil Wyzks y. Qgt gtj G-hkxtkzoiy *WQG+Wui okz..YWE

gy a y vy / MII Gus v | zkxWui dkz·. Y WE

ay vy / I | xuvkgt Wuickz lux J | • • · Pumoi gtj Evvroigzout y*1 YWJPEX+W/got

Ov u -4a6

Itmootkkxy*M/II+;YWE

gy a y vy HEyyuiogzout lux Gus v zotm Qginotkx *EGQ+YWE

gy ay vy HGus v zkxWuiokz·ul Mijog*GWM-Mijog

[zy a y vy HM)jogt Wuiokz·lux Xkintoigr lj|igzout

[zyay vy HMj ogt Woktik Gut mkyy Eyyui ogzout *MMGE+

[zy a y vy H Molyzoz|zout ul lrkizxutoiy gtj Xkrkius s | toigzout I tmotkkxy*N/IXI+N/Ijog0

a y vy ul Ml l *; 68348; 7+

Pu y yy406

a y vy ul Ml l *; 4: 23984+

a y vy ul EGQ *25: 425: +

Q-u y yy4P6Q6

ay vy ul MII *; 53488; 7+. gtj MII Gus s | toigzoutyWuiokz·0

[zyay vy *E44: 374+ul Xnk Myzoz zout ul liki zxutoiy gtj Xkrkius s | toigzout Itmotkkxy*N/XI+N/1jog0

g-u u4g6

a y vy ul Ml l *; 42463; : +

a y vy ul EGQ *65; 4855+

yu – 1

Q-u y yy4P6Q6gt j Sqol0lrgyzoi Svzoigr Rkz" uxqot m Xkinturumoky= $J \mid t j$ gs ktzgry. Hkyomt. Gutzxur. gtj Qgtgmksktz0GVGTxkyy.Xg·ruxgtjJxgtioyKxu|v.Fuig Vgzut. Y0ME. 4242? MFR/35=; 9: /335: 83393; . MFR/32= 335: 83393; 0

Sx yxj

Ggyzoru. S O a – 4d u uv Z 64Q krot. T. gt j T | rqqot kt. TO 42420 ls kxmotm Myy kygtj Evvroigzouty ul X·vk/4 J | ••• Wkzy gtj Wyzks y. It motkkxotm Evvroigzouty ul gxzoloiogr at zkrromkt i k.Zur0; 2=3257; 80

O wy7Q-u y P

a y vy HM/yzoz zk ul lrkizxoigr gtj lrkizxutoiy Vg to gx E0gtja - 4d6Z6442420Q rzovuhuz Gugrozout Juxs gzout gtj Xgyq Emuigzout Yyotm Molsomxgtz Fgykj Ej gvzd k Kkt kzoi Ermuxozns y0 Mt Gus v zgzout gr Mizkmomktik ot Iskxmotm Xkinturumoky lux Itmotkkxotm Evvroi gzout y * vv0427/447-10Wvxot mkx Gngs 0

O wy Y u

- a 4 d u uv Z64 Txgyngt z O0 K | vzg. gt j Nkxx Q0 Qktjkr0 "Tkxyut Juuzvxotz ul | tikxzgotz/hgykj G[[sujkrluxvu"kxuvzoso-gzoutotngtjnknjjk'oikyÖMII Xxgt ygi zout yut J | ••• W yzks y4: .t u05 *4242+37: /78: 0
- a 4 d u uv Z64 gtj Wgpoh O0 Foy" gy0 "Fg-kyoogt uvzos orgzout gmuxozns luxs | rzo/uhpkizó k yinkj | rotmul zos k gtj vxkikjktik i utyzxgotkj zgyqyotn kzkxumktku y s rzovxuikyyux y∙yzks y0 Evvrokj Wulz Gus v zotm ;4 *4242+3284960
- a 4 du uv Z64 gtj Txgyngtz O0 K | vzg0 "E tu'kr yur|zout gvvxugin lux s|rzouhpkizolk rotm|oyzoi uvzos o gzout vxuhrks y hgykj ut znk 4/z vrk I | ••• rotm|oyzoixkvxkyktzgzoutsujkn0EvvrokjWulzGusv|zotm ; 7*4242+3285; 70

Whi qrg. Es oz O0 Vgn r R gzn. d u uv Z6a - 4gt j UQ Hgtoyn Pungto0 "Itkxm klloioktzs|rzo/uhpkizolk yinkj|rotmulzgyqy "ozn otzkx'grz·vk/4l|••• zosotm iutyzxgotzy ot gt Mij|yzx-602 kiuy-yzks Öltmotkkxotm Evvroi gzout yul Exzoloi ogr Mizkmomkt i k: 9*4242+3254790

Whiqrg. Es oz OO Qkmng _gjg'. Wgtjkkv O|s gx gtj **du uv Z6a – 6** "Zkxgioz ngtjrotm gtj otyzgtik xkj | izout ot hom j gzg | yotm otzkx'grz·vk/4 | ••• ykzy/0 Itmotkkxotm Evvroigzouty ul Exzoloiogr Mizkmomktik :: *4242+3255370

Eynxgl. ' | hgox Q | q | r Pgzg Vu · . d u uv Z6a – 4gt j U0 Q0 Hgt oyn Pungt o0 "Mzkx' gr z·vk/4 I | ••• rumoi y·yzks hgykj yos orgxoz∙ k'gr|gzout lux os gmk yzkmgtumxgvn-0 L kro ut 8.t u07 *4242 +k259930

Whi | qrg. Es oz OOW | s oz OOF gt yngr. Xgt o g Wkzn. Ev gxt g Fgy | . Vuhkxz Nunt. gtj du uv Z6a – 6 "E hohrous kzxoi u'kx'dx" ulznk lokrj ulz·vk/4 l|••• ykzy gtj y·yzks y ajoyi yyout lux s d MII Gus v zgzoutgr Mizkmomktik Q gmg• ot k 37.t u03 *4242 ⇌ ; /; : 0

Whi qrg. Es oz OO d u uv Z6a – 4gt j Epozn Ehxgngs O'E hohrous kzxoi gtgr·yoygtji|zzotm/kjmku'kx'ok" utl|••• zkintow ky ot Fom HgzgÖ Itmotkkxotm Evvroigzouty ul

Exzoloi ogr Mrzk momkt i k; 4*4242 + 3258470

Qkxom.Zgrkxog Puhuy/Syygtj t.gtj du uv Z6a – 6 "E hohrous kzxoi u'kx'ok" ulznk Nu|xtgrulRkz"uxqgtj Gus v zkx Ev v roi gzout y hkz kkt 3; ; 9 gt j 423; 0 Nu | xt gr ul Rkz"uxq gtj Gusv∣zkx Evvroigzouty 387 *4242.⊨ 3248; 70

Ngts gopog-g. Qgt'ktjxg. Es oz OOWh| qrg. gtj d u uv Z6 a - 6'Etk'gr|gzoutulznkkiutusoiyxkykgxinot Mijog j | xot mrgyz znxkk j ki gj ky *3; : ; /423; +0 GS PPR I X Nu | xt gr ul Wioktzus kzwoiy gtj Miluxs gzout Qgtgmks ktz 36. tu 03 *4242+; 5/33: 0

Wkzn. Xgt o g. gt j **d u uv Z6a – 6**"X·vk/4 J | ••• Wkz hgykj Lkyozgtz J | ••• Potm joyzoi Xkxs Wkzy lux Potm joyzoi Hki oyout Qgqot m⁰gx] o vxkvxot zgx] o 4224033936*4242+0

K | vzg. Txgyngt z 00 gt j d u uv Z6a – 6"Et ks voxo gr yz|j⋅ul Gus v|zotm[ozn [uxjy gvvxuginky lux s|rzo/ vkxyut gtj ydtmrk/vkxyut y∙yzks y0' gx]o' vxkvxotz Gus v|zgzoutgrHkzkizoutdtStrotkWuiogrRkz"uxqy.EGQ

gx] d =4226036: ; 4*4242+0

'|xozg.K|yzg'u.Esoz O0Wh|qrg.Nuy E0Totu.Nuy Q0 K|vzg.Txgyngtz O0gtj **du uv Z6a – 6**"Tkxikvz|gr xkgyutotm hgykj yur zout s kznujurum lux rotm oyzoi uvzos o gzout vxuhrks y 0 gx] o vxkvxotz gx] o 4226036; 55 *4242+0

> K vzg. Txgyngt z O0 gt j d u uv Z6a - 6 "Tgxgmkr vxuikyyux yinkj | rotm= luxs | rgzout gy s | rzo/uhpkizolk rotm|oyzoi uvzoso-gzout gtj yur|zout |yotm Tkxikvz|gr Vkgyut ct m hgykj s kznuj urum 0 gx] d v xkv xct z qx] d =4226036; 77 *4242+0

Fgt yngr. W/s azO/s gx Evgxt g Fgy/. Zó kq OOWat mn. Wurgt qo K vzg. gtj du uv Z6a – 6"Hučgrzs kzxoi s ktzoutyč lumu" Tu"kxPg"yClʻojktiklxus yuiogrskjogsktzout j gzg ot Erzs kzxoi0ius 0 gx] o vxkvxotz gx] o =423302; 29; *4242+0

a -u ux Ov u -4Eynxgl Ogs gr. gt j Qungs s kj N0 ʻgqo E W¦x'k ∙ ul Jom|xgzo'k Pgtm|gmk gtj ozy



Xxgt ygi zout yut znk[kh.Zur036.Ru03.vv05=3/5=74.42420

a -u ux Ov u - gtj Qunj Jg•or. Wuiogrhuzy= Nglvgizy. Xnxkgz/Hos ktyouty. gtj Hklktyk Gngrkt mky. Mll Xkinturum gtj Wuiokz Qgmg•otk. 5; *5+ Mll. 4242. vv0 74/830

Gnkztg Oʻs gxo **a -u ux Ov u -4** gtj Rgoj | Wihngxgu. I-vruxotm Qurki | rgx Hkyixovzuxy gtj Jotmkxvxotzy zu Txkjoiz s XSV Ootgyk Minohozuxy | yotm Qginotk Pkgxtotm Xkintow | ky. Mil I 1EGQ Xxgtygizouty ut Gusv | zgzoutgr Fourum gtj Fouotluxs gzoiy. vv0 3/34. 42420

Zotkkz OOWkp" grgtj **a -u ux Ov u -4**GEQS=E Gutzk-z/E" gxk Qu'dx Stzurum Kktkxgzkj Ixus PSH gtj Qu'dx Hgzghgyky. Q|rzos kj og Xuury gtj Evvroigzouty. W/xotmkxRgz|xk.4242.vv08/450

Gnkztg O|s gxo a -u ux Ov u -4 gtj Rgoj| W|hhgxgu. Yyotm WQSXI zu Hkgr "ozn Grgyy/Nd hgrgtik Txuhrks ot Fougizoʻoz Hgzg zu Txkjoizs XSV Minohozuxy. W/xotmkxRgz|xk Gus v|zkxWioktik.3*5+W/xotmkxRgz|xk. 4242.vv03/340

Qunj 0 Jg• or gtj a -u ux Ov u -4 E Wuiogrhuzy Et gr· yoy/Hxoʻkt Kxgvn/Fgykj Evvxugin lux Njiktzob• otm Guuxj otgzkj Ggs vgomt yot X" ozzkx Nu| xt grul Mizkmomkt z (J | ••• Wyzks y. Zur05: . Ru05. NSI WTxkyy. vv04; 83/4; 99. 42420

ffu '4TE t gtj. WGngtjxg.cPgxmk/s gxmotjoyzxoh|zouts ginotk/hgykj xkmxkyyout. Rk|xgr Gusv|zotm gtj EvvroigzoutyWxotmkx4242.54*: +5855/586:

T Et gtj. **f f u ' 4**WGngtj xg. E i rgyy ul t k" y| vvuxz 'ki zuxxkmxkyyout s uj kry. Evvrokj Wulz Gus v| zot m 4242.; 6.328668

T Etgtj. **f fu '4** W Gngtjxg.Æ tk" gy∙s s kzxoi ⊠ dryktyozók vothgmruyy l|tizout hgykj y|vvuxz 'kizux w|gtzonkxkmxkyyouts ujkr.Evvrokj WulzGusv|zotm

4242.; 6.3286/95

T Wgongr. **f fu '4** W Gngt j xg. dWks o'y| v kx' oykj [komnzkj Xkxt gx Hki oyout Wzx| i z| xk lux Q | rzo'i gzkmux Grgyyoloi gzout . Rk| xgr Txui kyyot m Pkzzkxy. Wkxot mkx 4242. 74*4+3777/37: 4

Gnoynzo QOWO gtj **Pu y yy4 O64** chtlixkgydtm XTW xgzk ul yzgzk⊠hgykj hruiqingdiy h∙ v gxgmkr s didim. Mrlzkxtkz Xkinturum Pkzzkxy.[ork·. Strotk ydtik Wkvzks hkx 42420 NMWR=4698/372:0

Will gt Jogtji Pu y yy4064cGus v zgzout Silrugjot mlux

Hoyzxoh|zkj Quhork Ijmk Gus v|zotm Rkz" uxq \equiv E Q|rzo/uhpkizoʻk Evvxugin. MII Eiikyy. Zur0:. vv 36;;37 / 36;;52.E|m|yz42420**W**WR=438;/57580

Q-u y yy4P6Q64gtj S qol0d-Hklxgms ktzgzout Fgykj ut Vu|zk Tgxzozout otm ot 3-3 Txuzkizkj Irgyzoi S vzoigr Rkz" uxqy. Gus v|zkxRkz" uxqy.'ur0399.4242.vv03/33. M= 503330

Og|xV0K|vzg.E0Wkoʻgyzgʻg.E0**Q-u y yy4P4Q3**4Q ozvg.E0Vgs gs|xzn·.F0gtjFungxgZ0E0dVkyu|xikEmuigzoutgtjUuWK|gxgtzkkyluxVkgr[uxrjMTzxglloiotMzkmxgzkj]K/TSRgtjMII:24033kIHGERkz"uxqy.MIIEiikyy.'ur0:.vv0346::5/346:;5.4242.MI=509670

Og" ghgzg. E0 **Q-u y yy4P6Q6**4gt j Sqol 0aTgxzoiovgzat m/Hus gat Wkms kt zgzout Fgykj Wkx kxWkrki zout Winks klux Vkgr/Xos k Mrzkxgi zó k Gus s | toigzout . MM3I Xxgt ygi zout y ut Gus s | toigzout y. 'ur0I 326/F. tu09. vv 958/969. 4242. M=20360

Ens kj. XOJkxju | yo WO Xuxt gzuxk. QOQ czxg. EOQ-u y yy4

P6Q64gt j Q | qnkxpkk. FOcH · t gs oi Vu | zotm W · ki z × s . gt j

Quj | rgzout Juxs gz Emui gzout ot Qo-kj / Kxoj Svzoi gr

Rkz" uxqy. MIIIS WE Nu | xt gr u | Svzoi gr Gus s | toi gzout y

gt j Rkz" uxqotm ' ur034.t u07.vv09; /::.4242. M=506470

Zy yOxx y y u xW yxhu

Ov u – a 6 j krókxkj g Ok·tuzk Wykkin ut "Wuiogr Rkz" uxq Etgr·zoiy= Gngxgizkxoyzoiy. Gngrrktmky gtj Vkykgxin Hookizouty" gz znk MIII Gusv|zgzoutgr Myzkmomktik Wuiokz·*GNM+W/sskxWinuurut Iskxmotm Vkykgxin Xxktjy ot Gusv|zgzoutgr Myzkmomktik Xnkuxgtj Evvroigzouty". uxmgtoikj h·Svzosoigzout gtj QginotkPkgxtotmPgh.NMNMjuxkj|xotmRu'048/4;.4242

fu '**6f6**j krókxkj gt ot'azkj zgrq ut oGrgyyoloigzout = Txuhrks gtj Emruxazns y ot znk utrotk ynuxz/zkxs i u|xyk ktzazrkj oS vzos orgzout Xnkux. Q kznuj y gtj Evvroigzout y j|xotmE|m|yz3:/42.42420

Q-u y yy4P6Q6jkrókxkjgtot'ozkjrkiz|xkutoVu|zotm gtjyvkiz√|s gmuigzoutotkrgyzoiuvzoigrtkz"uxcy"otznk Jgi|rz: Hk'kruvsktz Txumxgs.yvutyuxkjh-EMGXI. Gutj|izkjh-Myzoz|zkulltmotkkxotm(Xkinturum.Hk'o Enor-gYtókxyoz-Motjuxk.Sizuhkx42.4242*Zoxz|gn-0

Q-u y yy4P6Q6 j krók xkj gtot 'ozkj zgrqutoE v xugizók lxgms ktzgzouts gtgmks ktzyinks k hgykj utixuyyzgrq/g"gxk hgzin v xuikyyotm lux yv kizxgm-/yv gzogm-krgyzoiuv zoigrtkz"uxqy"gz O uzu Ytók xyoz. Njr; 4242. Ngv gt*Zooz|gm-0

g-u u4g6jkrókxkj gt ot 'ozkjzgrqut oEvvroigzouty ul|ty|vkx'oykjrkgxtotmot MUX ot znk Jgi|rz-Hk'kruvs ktz Txumxgs. yvutyuxkjh-EMGXI Xxgototm gtj Pkgxtotm *EXEP+Eigjks-ut Hgzg Wioktik gtj Qginotk Pkgxtotm uxmgto-kjh-Hkvgxzs ktz ul Gus v|zkx Wioktik gtj Itmotkkxotm OWIX Kxu|vy ul Miyzoz|zouty. Kng•oghgj. Y0T0 Ru'ks hkx33.4242*Zooz|gr-0

du y d y y yx u x[yw y Ry y yx

Wgtjkkv O|s gx Es oz OOWh|qrg.gtj **d u uv Z6a – 6**"Myurgzout Juxkyz Fgykj Q|rzo/Wu|xik Yty|vkx'oykj
Xxgtylkx Pkgxtotm lux Qoyyotm KHT Txkjoizout Ö Myl 4242
Mylzkxtgzoutgr Nuotz Gutlkxktik ut Rk|xgr Rkz"uxqy
**MYGRR+vv03/: 0*WII.42420

Xgto-gWkzn. gtj **du uv Z6a** – **6** "Tkxikvz| gr Gusv|zotm" ozn Gusvgxgzók Potm¦oyzoil –vxkyyoutyő M/ 4242 MIII M/zkxtgzoutgr Gutlkxktik ut J | ⋅・・ Wyzksy *JY' '/MII+vv03/90MII.42420

Eyn | zuyn Xố gxo U0Q0Hgt oyn Pungt o gtj **du uv Z6 a** – **6** "Milzkx' gr/' gr| kj Milz| ozout oyzoi J | ••• XSTWW/ s kznuj lux W vvrokx Wkrki zout Txuhrks 0 Mil 4242 Mil I Milzkxt gzout gr Gut Ikxkt i k ut J | ••• Wyzks y *JY''/Mil I + vv03/: 0 Wil I . 42420

E·| yn OOZgxynt k·. UQ Hgt oyn Pungt o gt j **du uv Z6** a – **6** "Mol vxu' kj Txuhghoroyzoi Molz| ozout oyzoi J| ··· i/ Q kgt y Gr| yzkxot m Ermuxozns = Mol vxu' kj TM/GQ 0 Mol 4242 MMI Molzkxt gzout gr Gut Ikxkt i k ut J| ··· W yzks y *JY' '/ MMI I + v v 08/80 MI I .42420

E·| yn OOZgxynt k·. Txo gt qg Qknxg. **d u uv Z6a** – **4** gt j UOQ 0Hgt oyn Pungt oʻʻ'Mlzkx' gr/Zgr| kj J| ••· i/Qkgt y Emuxozns gt j Mlzkx' gr/Zgr| kj Hkt yoz·/Fgykj J| ••· i/Qkgt y Emuxozns oʻʻ Ml 4242 MII Mlzkxt gzout gr Gut Ikxkt i k ut J| ••· Wyzks y*JY' '/MII +vv08/80MII .42420

Txo gt qg Q knxg. Xgt o g Wkzn. gt j **d u uv Z6a** – **6** "Kkt kxgzdim U | groz· MVXL I R V | rky lux Hoghkzky | ydim Potm| oyzoi W s s gxo-gzout 0 M 4242 MII Mrzkxt gzout gr Gut lkxkt i k ut J | ••• Wyzks y *JY''/MII + vv03/90 MII. 42420

Es oz OOWN | qrg. **d u uv Z6a** – 44U0Q0Hgt oyn Pungt o0 otWks o/krrovzoi s ks hkxynov l | tizouty gtj xkrgzkj gxozns kzoi uvkxgzouty0 Mr Xnk Jolzkktzn Mrzkutgzoutgr Gutlkxktik ut J | ••• Wkz Xnkux gtj Evvroigzouty JWKE 4242. Povzu'yq Nt. Whu'gqVkv | hroi. Ngt | gx 48/53.42420

Eyn | zuyn Xoʻgxo U0Q 0Hgt oyn Pungt o du uv Z6a – 6 oft | zvy gr/ gr | kj ot z | ozout oyzoi | | ••• XS TWW/s kznuj lux



y | vvrokxykrkizout vxuhrks 0M/1 Xnk Jolzkkt zn M/1zkxt gzout gr Gut Ikxkt i k ut J | ••• Wkz Xnkux gt j Evvroigzout y JWKE 4242. Povzu'yq N t. W/u'gq Vkv | hroi. Ngt | gx. 48/53.42420

E·| yn OʻZgxynt k·. d u uv ZʻGa – 4U OʻQ OʻHgt oyn Pungt oʻD cRuxs groʻkj jkt yoʻz hgykj oʻt zʻozout oyzoi I i ··· i/s kgt y ir i yzkxot m grmuxozns OʻMi Xnk Joʻzkkt zn Mizkxt gzout gr Gut Ikxkt ik ut J i ··· Wkz Xnkux gt j Evvroi gzout y JWXE 4242. Povzu' yq Nt. Wuʻ qq Vkv i hroi. Ngt i qx 48/53.42420

Qunj Jg•or.Es ozO|s gxWgngtja -u ux Ov u -4E Lokxgxinoigr Ezzktzout/Fgykj Rk|xgr Rkz"uxq Qujkr lux Wuiogrhuz Hkzkizout ot SWR. Myl Txuikkjotmy ulznk 3;zn Mylzkxtgzoutgr Gutlkxktik ut [kh Mylzkmomktik *[Myl Qqrhu|xtk.E|yzxqroq.vv08/:.Hkiks hkx36/39.42420

Rkygx Ens gj [gyo gtj **a -u ux Ov u -4** Hui|s ktz/Pk'kr Wktzos ktz Etgr·yoy znxu|mn Miliuxvuxgzotm Txoux Hus got Otu"rkjmk otzu Pumoyzoi Vkmxkyyout. Mil Txuikkjotmy ul znk 3;zn Milzkxtgzoutgr Gutlkxktik ut [kh Milzkmomktik *[Mil Qgrhu|xtk. E|yzxgroog.vv03/8.Hkiks hkx36/39.42420

Qj0 Eyrgs Tgx"k•. **a** -**u ux Ov u** -4 gtj Ngnov|jjot. E Wuiogr Qkjog Xos k/Wkxoky Hgzg Etgr-zoiy Evvxugin lux HomozgrIvojks ourum. N1 Txuikkjotmy ulznk 3; zn Mizkxtgzoutgr Gutlkxktik ut [kh Mizkmomktik * [Ma Qqmhu|xtk, E|yzxqroq, vv08/:. Hkiks hkx36/39.42420

Gnkzt g O| s gxo **a -u ux Ov u -4** gt j R goj | W| hhgxgu. Yyot m WQ S XI zu Hkgr "ozn Grgyy/Mi hgrgt i k Txuhrks ot Fougi zó oz Hgzg zu Txkj oi z s XS V Minohozuxy. W/xot mkx R gz| xk Gus v| zkx W/okt i k. 3*5+ W/xot mkx R gz| xk. 4242. vv08/340

a – u ux Ov u – 4Q unj OJg• or. gtj Xgxow k Et "gx E Gut zk–z grWks gt zoi/Fgykj Evvxugi n lux Hus got/Gkt zxoi Pk–oiut l – vgt yout. MT Txuikkj ot my ul znk 53 yz E | yzxgrgyogt Hgzghgyk Gut lkxkt i k *E HG+Q krhu | xt k. E | yzxgrog. PR GW vv O438/446. Jkhx | gx 6/9.42420

Q-u y yy4 P6Q6 gtj S qo I 0 dHklxgms ktzgzout lux 3-3 Txuzkizkj I rgyzoi S vzoigr R kz" uxqy=E Vu|zk Tgxzozout dim Evvxugin. 38zn Mizkxtgzout gr Gut Ikxktik ut Mi-S vzoigr R kz" uxq *TS T4242+32/33 Wkvz 4242. Ngvgt *Zoz|gr Gut Ikxktik+0

S qo I 0 Wg"g. X0 L k. J0 Wgzu. X0 gtj **Q-u y yy4 P6Q64** aTkxluxs gtik ul L ozrkyy Hklxgms ktzgzout "ozn Vkxu| zotm lux U| gyo3-3 Txuzkizkj I rgyzoi S vzoigr R kz"uxqy. Txui0ul 43zn MGXS R. 3; /45 N| r· 4242. Fgxo Mzgr. v gvkx Q u0H5080 aM1'ozkj v gvkxc0

g-u u4g6gtj Tks u. WooTkxluxs gtik Etgryoyul Zgxou| y Itzxuv· Qkgy| xky ot Ggzkmuxoigr Hgzg Gr| yzkxotm MII M1zkxtgzoutgr Gutlkxktik ut Gusv| zgzoutgr Tkxluxs gtik I'gr| gzout *Gus TI+. 4/6 N| r· 4242. M1j og *Zoxz| gr Gutlkxktik+0

O -y uwuxy wuw-y y y

E ut k/j g· [uxqynuv ut Rk-z Kkt kxgzout Svzoigr Rkz" uxqy" gyuxmgtoikj ut 3: zn Hkiks hkx 42420Hx0Fopu-Gngtj Gngzzkxpkki uuxjotgzkj znk" uxqynuv0

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3	3: 03404242	HoygyzkxVkyorokti: ot Rk-z/Kktkxgzout SvzoigrRkz"uxqy	Hx0WolgzJkxju yo.Yto'kxyoz ul Ggroluxtog.Hg'oy. YWE
4	3: 08404242	Qginotk Pkgxtotm Sxoktzkj Vkyu∣xik Emuigzoutot Rk–z/Kktkxgzout Svzoigr Rkz"uxqy	Hx0Vgn rNgyn'gtzhngo MijogtMyzoz zkulXkinturum.Hngx"gj.Mijog
5	3: 03404242	SvzoigrEiikyyRkz"uxq≔Loyzux gtj VkiktzVkykgxinXuvoiy	Hx0Xgqknoxu Wgzu. O uzu Y t oʻkxyoz: . Ngv gt
6	3: 08404242	Ejˈgtiotmuvzoigriuss toigzoutgtj skgy xksktzy-yzksy yotmsginotk rkgxtotm	Hx0Hgxquʻdngx XkintoigrYto'kxyoz-ulHktsgxq.Hktsgxq
7	3: 08404242	Jrk-dnrk. Wki xk gtj t kxm lloioktz Xos k gtj [g'krktmzn Holoyout Q rzovrk-kj Tgyyo'k Svzoigr Rkz"uxq*X[HQ/TSR+	HxOKu zgs Hgy. Mijogt Miyzoz zku Xkinturum Ongxgmv xOngxgmv x

j zgw-u –yRy 67Tuw 7g ywu[yw y

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g xy Ow-yyy

g y u g-u u4 TnH *4242+ngy hkkt ykrkizkj gy gt Evvrokj WioktzoyzotznkEs g•ut.Mj og0

O – **Z6ju** – **y 4**QWi *4242+ ngy pouotkj znk TnH vxumxgs "oznl| mlotgtiogry| vvuxzotznkYs k Yto'kxyoz. W kjkt0

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gu ZuungyQWi*4242+ngypudikjznkTnHvxumxgs "czn||rlotqtiogry|vvuxzotznkYskYto\kxyoz.Wikjkt0

Ovx k ux x4Q Wi*4242+ngyhkkt ykrkizkji gyg Pkiz| xkx ot znk Vgpyngno Ggtzutsktz T| hroi Winuur gtj Gurrkmk. Vgpyngno Fgtmgjkyn

gu yx V u u- guxu 4 Q W *4242+ ngy hkkt ykrki zkj gyg Wulz" gxk Hk' kruv kxot Ogh| r. Elmngt oyzgt

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Department of Mathematics

Faculty of Mathematics & Computer Science

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Fgt mrgj kyn	3	Rkvgr	3
Fn zgt	8	Tgqqyzgt	3
Nt)jog	37	WkoPgt qg	2
S znkxy	2		

buyzd'u yHd-Rau-y uw Pu w-HD

Elmgt øyzgt	4	Qgrjóky	2
Fgt mgj kyn	7	Rkvgr	7
Fn zgt	2	Tgqqyzgt	2
M1j og	43	WkoPgt qg	2
S znkxy	2		



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1	Ogvar O s gx Whgxs g	Mijogt Myzoz zk ul Xkinturum Ogtv xMijog 4226	Txulkyyux(Gngowkxyut	R∣s kxoigrEtgr-yoy.Hkrg-HollkxktzogrIw gzouty. Wotm rgxTkxz xhgzout XnkuxJotozkIrks ktzQkznujy
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9	Hkkvg Worng	Yto'kxyoz∙ul Hkmo.N∀jog 4229	Txulkyyux	Kxgvn Xnkux
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Pu u 4Y6Q6*Zoyozot mJgi | rz· ⊨Pókxwuur Luvk Ytókxyoz·. Pókxwuur YOlxus 423: /42430

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U u u x Ty – w zy yx y vy z –y Tuw

- a -u 4 f 62.6 *Txodioryr Mt'kyzomgzux ⊨ Wgtizoutkj h-HWK*W VF+|tjkxGuxk Vkykgxin Kxgtz*TEG Qgznks gzoigr Wfoktik+/JgyzR|s kxoigrQkznujyotl-vutktzogrJuxs lux Q|rzofjos ktyoutgrWkiutj/gtjJu|xzn/uxjkxU|gyorotkgx Tgxghuroi TgxzogrHollkxktzogrIw|gzouty aTkxouj/25·kgxy*Evxor423;/Qgxin4244+caEsu|tz Vy44.25.844c*Ytjkx Txumxkyy+0
- a -u 4 f 6Z6 *Txotiovgr M/l kyzomgzux ⊨ Wgtizoutkj h-HWX*W VF+ | tj kx QEXVMGW Txupkiz *TEG Qgznks gzoigr W oktik ⊬c -y g y g za 5x y u V y v wS u 6ody x 9A yu *N r 423: / N tk4243 ⊬c Æs u| tz Vy8.82.222 c*Ytj kxTxumkyy-0
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- Yu 4 du u *Txotiovgr Mtl kyzongzux ⊨ Wgtizoutkj h-HWX*W VF+ | tjkx QEXVMGW Txupkiz *TEG Qgznks gzoigr Wicktik ⊬f v xy Tu wu y y u u z z w uwy ody x 9A yu *N tk 423: / N tk 4243+caEs u | tz Vy8.82.222 c*YtjkxTxumxkyy+0
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Pu u 4 Yu'x - Q-u x *Gu/Txotiovgr Mt'kyzomgzux⊨ Vkykgxin Kxgtz lxus Rgzoutgr Txupkiz Ms vrks ktzgzout Ytoz*RTMi+|tjkxXIUMT Gurrghuxgzoʻk Vkykgxin Winks k *N|tk423;/Wkvzks hkx4242+*Es u|tzMiV;.;6.222-9

Pu u 4 Yu'x – Q-u x *Gu/Txotio/gr Mt/kyzomgzux ⊨ Vkykgxin Kxgtzlxus Vgpgyzngt XkintoigrYto'kxyoz XIUMT/ MMM tjkxGusvkzozó k Vkykgxin Winksk *Wkvzkshkx423;/ Nir 4242+*Esu|tzMAV4.62.222-60

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g-u u4 Zu Z Qks hkx Qgt|yixovz Txuikyyotm Guss ozzkk. Nu|xtgrHollkxktzogrlw|gzoutgtj H⋅tgsoigr Wyzks y*Wyxotmkx+0

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g-u u4 Zu Z Vklkxkkj yk'kxgr gxzoirky lux 'gxou|y yiokt zoloipu|xt gryul ot zkxt gzout grxkv|zk0

Y-u4 bu Vk'ok" kj 'gxou|y xkykgxin vgvkxy ul znk Nu|xtgryulotzkxtgzoutgrxkv|zk0

Pu u 4Yu'x - Q-u x Fuuq Wkxoky Ij ozux Emuxozns ylux Mlzkmomkt zWyzks y*Wvxot mkx+

Pu u4Yu'x – Q-u x Fuuq Wkxoky Ijozux Wz|joky ot E|zutus oi. Hgzg/jxo'kt gtj Mij|yzxogr Gus v|zotm *Wvxotmkx+

Pu u 4 Yu'x - Q-u x Eyyui ogzk I j ozux MII EGGI WW *MII T | hroynkx+

Pu u 4Yu'x - Q-u x Eyyui ogzk I j ozux EVVE_*I ryk' okx+

Pu u 4 Yu'x – Q-u x ljozux/ot/Gnokl. Mizkxtgzoutgr Nu∣xtgrulW/gxs Mizkmomktik*1Mijkxyioktik+

[$-\mathbf{u}$ 4e a $\mathbf{R}\mathbf{u}$ - $\mathbf{V}\mathbf{k}'$ dx" kj gt|s hkxulgxzoirkylux MII Xxgtygizouty ut $\mathbf{J}|$ ••• Wyzks y gtj Evvrdkj Wulz Gus v|zotm0

gu-u 4gu Z u H/k' ok" kxluxQ gznks gzoj grVk' ok" y gt j uznkxznk Nu| xt gryul ot zkxt gzout grxkv| zk0

Oyayvy – z bu u7Wyu uPxy

g – u.4 Ryy u.4 Nuotz Wkixkzgx. Moljoogt Eigjks · lux Qgznks gzoigr Qujkrotm gtj Wos | rgzout *MEQQW—l tjkx znk Ekmoyul Moljoogt Molyzoz|zk ulXkin turum Ogtv|x0

Yu 4 du u 4 Polik Qks hkx ul znk Mijogt Qgznks gzoigr Wuiokz·. Errgnghgj Qgznks gzoigr Wuiokz·. Ngs s | Qgznks gzoigrWuiokz·0

Yu 4du u 4Qks hkxul Es kxoigt Qgznks gzoigrWuiokz·0

Pu u 4 Yu'x - Q-u x 4 Kktkxgr Wkixkzgx·. Wulz Gus v|zotmVkykqxin Wuiokz·.Ntjog

Pu u 4 Yu'x – Q-u x 4 Polk Qks hkx ul znk Mijogt Qgznks gzoigrWuiokz:0

Pu u 4 Yu'x - Q-u x 4 Polk Qks hkx ul Gx vzumxgvn· Vkykopin Wuiokz·ul Mijoog0

[-u 4e 6a 6Ru -4Qks hkxulznk MII Wuiokz 0

gu-u 4 gu Z u 4 Polk Qkshkx ul znk Ntjogt Qgznks gzoigrWuiokz:.Ggri|zzgQgznks gzoigrWuiokz:gtj Ntjogt Eigjks · Iux Qgznks gzoigr Qujkrotm gtj Wos|rgzout*MEQQWW9

d v wu

- **a** -**u** 4f 6Z6gtj WLEVQE WEGL MA*4242+Ju| xzn/uxjkxt|s kxoigryinks k hgykj ut ngrl/yzkv tut/vurtus ogryvrotk gvvxu-os gzouty lux 3H w| gyo/rotkgx vgxghuroikw| gzouty. R|s kxoigr Etgryoy gtj Evvroigzouty. Zur035. vv08: /: 30
- a -u 4.664 Ogtingtjg Kkkzgt. Ongt Exyngj gtj On | xgtg K | tpogt *4242+Etk" norm gii | xgi·s kznuj ot k-vutktzogrluxs hgykj ut ull/yzkvjoyixkzo-gzout luxtut/ rotkgx z"u vuotz hu | tjgx 'gr | k vxuhrks y. Nu | xtgr ul Hollkxktik Iw | gzouty gtj Evvroigzouty. Zur048. vv0393/ 4240

Og| x Hkkvzogtj **a -u 4f 6Z6***4242+Lommr gii | xgzkius vgiz jollkxktik yinks k lux lu | xzn uxjkx vgxghuroikw| gzout "ozn Hoxoinrkz gtj Rk | s gtt hu | tjgxiutjozouty=Evvroigzout zu muuj Fu | yyotkyw kw | gzout. Evvrokj Qgznks gzoiy gtj Gus v | zgzouty. Zur059:. MH=3474240

a –u 4f6Z64_ | gt Pogtj Whgxs g. Hoʻog *4242+ERk" Gus vgiz Winks k ot I–vutktzogr Juxs lux X"u/ jos ktyoutgrXos k/jkvktjktzF|xmkxyčgtj Rg'okx/Wzuqky Iw|gzouty.IgyzEyogt Nu|xtgrut Evvrokj Qgznks gzoiy.Zur0

32.vv0659/6760

- a -u 4f 6Z64Q gtingtjg Kkkzgt. On | xgtg K | tpogtgtj Ongt Exyngj*4242+Etk" znozjuxjkxk-vutktzogm lozzkj joyixkzo gzout lux znk yur| zout ultut/rotkgx z"u vuotz hu| tjgx 'gr| k vxuhrks y utg mxgjkjs kyn. Nu| xtgrul Evvrokj Etgr yovgtj Gusv| zgzout. Zur082.vv 08963/39920
- **g u4Ryy u4**gtj Vgu. Et ozg O| s gxo0*4242+0Gu/s g–os gr Kxgvn. ozy Trgt gxoz· gtj Hus ot gzout R| s hkx Nu| xtgrul Ndzkxi uttki zout Rkz" uxqy. Zur| s k 42. Ru04. 4272227 *36 vgnky+HS N#820\$3641W243; 487; 4272227] 0
- g -u4Ryy u4gtj Vgu. Et ozg O|s gx*4242+0ls hkjjotm ulyomt/xkm|rgx yomtkj mxgvny gtj ozy yvkizxgr gtgr. yoy. Potkgx gtj Q|rzorotkgx Ermkhxg. nzzvy=1juobluxm132082:21252:32:90424203987;760

Jounkt•g. Emkkozugtj **Yu 4du u4**Elgs or ulkw|ó gmktz tuxs y lux Pkhkym|k yvgiky. Exin 0 Qgzn 0. juoQuxm132082291y22235/242/23756/60

Kumgzoyn'oro Esoxgt. **Yu 4du u** gtj Ogtporgr. Wgoqgz. ut horot kgx Lgxj \cdot ot kw| groz \cdot gtj i uxxkyvutjot m mkus kzxois kgt ot kw| groz \cdot . Voi kxi nkj o Qgzks gzoig. *4242+j uo \cdot 132032291y337: 9/242/22758/40

Eqnorkyn Txgygj.'gs ox E0Etygxogtj **du u Yu 4**Tyk|ju/jolkxktzogruvkxgzux ot znklxgs k"uxqulrotkgxigtutoigrzxgtyluxs jusgot. Eyogt/l|xuvkgt NO Qgzn0 *4242+juoQuxm132083641W89;57793437233970

- Yu 4du u 4Quringtu'g. Etgyzgyog. Womm. Qutoqggtj Zujuv·gtu'. Wkxmk· St mxgtj Wuhurk'yvgiky gtj vuotz"oyk jkyixovzout ul Fgtgin l|tizout yvgiky. Rutrotkgx Etgr·yoy. *4242+. juoQuxm132032381pOtgO424203343220
- Yu 4 du u 4 Gngt j xgt o Fgy| gt j Zókq Tgt "gx J d azk Q kmd zxgt yluxs lux *v? w+gt j y·s s kzxoi i gri | r| y. N0 Tykuj u Hollkx05 v kx0E v v r0*4242+ j u o@uxm132032291y33: 8: / 242/22582/20
- Gngtj 0 Txks Fgngj | x M2 Gnoingxxu. Jxgtioyiu gtj Yu 4 du u 4 St znk j kyomt gtj gtgr. yoy ul norm uxj kx [kkxgquut/Jkxtgtju s kznujy hgykj ut "kormz l| tizcuty. Gus v 0 Q gzn 0 Q kznujy. *4242+. j uc32032241 is s 6033360
- Yu 4 du u gtj Fgngj | x Gngtj. Txks. Hkxó gzó k lxkk ozkxgzó k s kznujy" ozn s ks ux ng' otmnomkx V/uxj kxul

- iut'kxmktik. M1z0 N0 RutrotkgxW10 R \mid s kx0 Wos \mid rgzout. *4242+juo0luxm132037371qotyty/423;/23960
- **Yu 4du u 4**Fgy|. Gngtjxgtogtj Tgt"gx Zókq. St F,/Gruvkt Gutzot| oz·. Syiorrgzout gtj Gut'kxmktik. Xhoroyo QgznON035*4242+34;/3620
- Yu 4 du u 4 0 | s gxo Wgtzuyn gtj Watm. Qutoqg. Qo-kjtuxs otkw| grozoky lux Pkhkym| k yvgiky. Txui0 R gzoutgr Eigj OW OM jog. Wkizout E.; 2*4242+9: 5/9: 90
- Yu 4 du u Ogt porgr. Wgoqgz. H0 Wzkvgt u'. Zrgjos ox gtj Wngs horu'g. K0 Foratkgx"komnzkj Lgxj·/z·vk otkw|grozoky otjoyixkzkgtjw/igri|r|ylxgsk"uxq. Qgzn0 Ynkw|gr0 Evvr0 45*4242+349;/35320
- Yu 4 du u 4 O|s gx Vgpktjkx gtj Txgygj. Eqnorkyn. Kktkxgro-kj Win"gxz-X-vk Wygiky gtj PGX Fgykj Tyk|ju Hollkxktzogr S vkxgzux Xxgty0EVg-s gj-k Qgzn0 Myz0 396 *4242+;5/3280
- **Yu 4du u 4**Ngot Wgtjn·ggtj HOWzkvgtu'. Zrgjos ox PGX hgykj otzkmogr zxgtyluxs y gtj Lg|yjuxlle uvkxgzuxy. I|xgyogt QgznON033*4242+79/930
- **Yu 4 du u 4** Worm. Ex|t Tgr. Worm. Qutong gtj H0 Workvgtu'. Zrgjos ox Stj|groz-ulm ogtj FuintkxPkhkym|k yvgiky. Qgzn0R uzky. 329*4242+469/4780

Vgo Txgzos g gtj **g-u u4Zu Z4**R|s kxoigr gvvxu-os gzout lux g irgyy ul yotm¦rgxr·vkxz|xhkj j krg-j ollkxktzogrkw|gzouty"ozn hu|tjgx-gtj otzkxouxrg-kx*y+R|s kxoigrEmruxozns y:7*3+527/54:0

_gj gʻ Wʻgzo VgoTxgzos gʻgt jʻ**g-u u4Zu Z4**E normkx uxj kx | toluxs r·i utʻkxmkt z s kznuj lux yot m¦rgxr· vkxz|xhkj vgxghuroi z|xtot m vuot z vxuhrks y. R|s kxoi gr Qkznuj yluxTgxzogrHollkxkt zogrl w|gzout y58*4+564/58:0

Qoynxg T. **g-u u4Zu Z4**Tgt o EO. Jgodiky K. Lorm/uxjkx joyixkzk/zosk uxznumut gryvrotk i urrui gzout skznujy lux yotm rgxr·vkxz xhkj 3H vgxghuroixkgizout jollyout vxuhrksy. R skooigr Qkznujy lux Tgxzogr Hollkokt zogr I w gzout y 58 *5+6; 7/7450

Y-u4bu 4[gmk-Q0Elgs or ulw|gyo/gxoghnks kynkynom/xkyun|zout ius vgiz uvkxgzux yinks k luxh|xmkxŏy/n|-nk-gtj h|xmkxŏy/loynkx kw|gzout. Qgznks gzoiy ot Evvrokj Wioktiky gtj ltmotkkxotm *4242+3/45.juo2uxm132074281s gyk132:95

Y-u4 bu 4 Worm F0 Ju|xzn/uxjkxius vgiz yinks k hgykj ut w|gyo/gxoghrk skyn lux znxkk/josktyoutgr sorjr∙tutrotkgx yzgzoutgx∙iut'kizout/joll|yout kw|gzouty.R|skxQkznujyTgxzogrHollkxktzogrIw|gzouty 4242.3/490 Qoyxg E000 **Y-u4bu** 4Tgzkr V0 Quj krot mznk Illki zy ul Mtyki zy gtj Mtyki zoiojky "ozn I-zkxt gr Illuxzy ut Emxoi|rz|xgr Gxuvy Hollkxkt zogr Iw|gzout y gtj H·t gsoigr Wyzksy. 4242. nzzvy=1juo0uxm132032291y347;3/242/ 22777/5

Y-u4 bu 4 Tkxkxg W0 I j ozuxogr. W ki ogr oyy k ut Gus v | zgzout gr Q u j krot m (Wos | rgzout y/Vkgr [uxrj Evvroi gzout y. Hollkxkt zogr I w | gzout y gt j H·t gs oi gr W yzks y. W xot mkx 4242. nzzvy=1 j uoduxm132032291y347; 3/242/22762/"

Qoyxg E 6000 **Y-u4bu** 4 Tgzkr V0 Qujkrot mznk kllkizyul otykizygtj otykizojojky ut gmxoj rz|xgrixuvy "ozn R WiHskznuj. Nu|xtgrul Evvrokj Qgznks gzojygtj Gusv|zotm 3/3; *4242+

Pu u 4 Yu'x - Q-u x 4 gtj Watm. Whoz|0 "E hkzzkx k-vruxgzout yzxgzkm ot Kxk·[url Svzoso-kx0 Nu|xtgrul Eshoktz Mizkmomktik gtj L|s gto-kj Gusv|zotm*4242 ⊨ 3/420

Gng|jngx.Zoyngr.H|hk.LgxoQungt.Tgtjoz.Qgtpgxkk.gtj **Pu u4Yu'x - Q-ux6**"Q|rzo/gxkg kiutusoijoyvgzin "oznyzuingyzoi" otj vu"kx|yotm Wgrv W gxs Emuxozns O'Exxg·: *4242+3222660

Whopse g. Rowse grg. Whopse g. Lopsonyn. Whopse g. Epop gtj

Pu u 4 Yu'x - Q-u x 6 "H|tm hkkzrk otyvokj ruigr

ykgxin ot gxzoloiogrhkkiurut grmuxozns lux|tiutyzxgotkj

gtjiutyzxgotkj t|s kxoigruvzos oygzout0 Mizkxtgzoutgr

Nu|xtgrul Mizkrromktz Itmotkkxotm Miluxsgzoiy:.tu06

*4242 ≠48:/5260

Q azzgr. Los gtyn | . Wgxgy" gz. Q | qkyn. **Pu u4 Yu'x – Q-u x** gtj R gmgx Ez | r g0"J gqk/J gik Msl gmk Grgyydoi gzaut | ydim Msl vxu'kj U | gtz | s /Mslyvokj I'ur | zout gx /hgykj Jkgz | xk Wkrki zout Q kznuj 0 Msl 4242 Ml I W s vuyd s Wkxdky ut Gus v | zgzaut gr Mszkmorkt i k *VWGMs vv0; :; /; ; 70 Ml I . 42420

WLYOPE. Es oz OO REXL. Vgn | r. QYLYVM Txgtgh OO [cVObWe6a6Ru -4*4242+ltkxm klloioktzs | rzo/uhpkizoik yinkj | rotmul zgyqy "ozn otzkx'grz·vk/4 | ···zos otm i utyzxgotzy ot gt Mij | yzx·602 ki uy·yzks. ItmotkkxotmEvvroigzouty ul Exzoloiogr Mizkmonktik. Zur0:9. vv08254790

EWLVEJ. '| hgo 0 Vu·. Q| q| r Pgzg. QYLYVMTxgt gh 00 [cVObWe 6a 6Ru -4*4242+Mzkx' grz·vk/4 I| ••· rumoi y·yzks hgykj yos orgxoz· k' gr| gzout lux os gmk yzkmgt umxgvn·.L kro ut .Zur08.vv0k259930

Rgzn.F.Vu·.T.**gu−u 4gu Z u** gtjQgozoW0'Trgtqzut

j·tgs of yot t|zxoktz/Tn·zuvrgtqzut/"uuvrgtqzuts ujkr "ozn 'oxgrotlkizout of vn·zuvrgtqzut® Rutrotkgx Wz|joky 49.tu03 *42.42 + 3/46

gu-u 4 gu Z u gtj Kgqqngx W/tozg0 oEs gznks gzoigrs ujkrlux vngmk znkxgv· "ozn os v|ryók vngmk juyk 0 Hollkxktzogrlw/gzouty gtj H·tgsoigr Wyzks y.4:.3*4242+97/:80

Sx yxj y

Tgtjoz. Qgtpogxkk. Lgxo Qungt H|hk∙.gtj **Pu u 4Yu'x – Q–u x4**kjy0Rgz|xk Miyvokj Svzos o∘gzout lux lnkizxoigr Tu"kxWyzks 0Wxotmkx 42420

Zy yOxxy yuxW yxhu

- **a u 4f6Z6QQ y y 1** uxmgto-kj gt d*Vlzkxtgzoutgr [uxqynuv ut R | s kxoi-grQkznuj yot Wioktzoloi-Gus v | zotmč Wu | zn Eyogt Yto'kxyoz (WVF.HWKHkmo Jkhx | gx 43/44. 42420
- a -u 4f6Z6Ody xy u uxxy u vy1 cMYzkxtgzoutgrGutlkxktik ut Ej'gtikyotGusv|zgzoutgr MYzkmomktik puotzr uxmgto-kj h-HgllujorMyzkxtgzoutgr Ytókxyoz. Ngngtmoxtgmgx Ytókxyoz-otgyyuiogzout "ozn Wu|zn Eyogt Ytókxyoz.Ru'ks hkx42/43.42420
- g u4Ryy u4gt ot' ozkj zgrqut o.5 trotk WuiogrRkz" uxqy Yydrm Womtkj Kxgvny ot Xnxkk/Hg- o.Rgzoutgr[khotgxut Evvroigzoutyul Qgznks gzoiygtj Gutzks vuxgx- | ykulozy Wioktzoloi (XkintoigrXkxs oturum ot Lotjo*EQ/GYWXX/L/ 4242+.puotzr- uxmgtoikj h- Guss oyyoutlux Wioktzoloigtj XkintoigrXkxs oturum. QLVH. Ku'z Oul Mijog. Mijog gtj Winuurul Gusv|zgzoutgrgtj Mizkmxgzo'k Wioktiky. NOROYO Rk" Hkmo Njtk36/38.42420
- g u.4 Ryy u.4 gt ot'ozkj zgrq ut oKxgvn Xnkux-Evvroigzouty ot Strotk Wuiogr Rkz"uxqy ot [khotgx uxmgtoykj h- Hkvgxzsktz ulltmotkkxotm Wioktik gtj L|s gtozoky.OPI HxXQ OWOWnkynmoxoGurrkmk ulltmotkkxotm gtj Xkinturum.Fkrgmg'o/2:.Njtk38.42420
- g u4Ryy u4gʻoz|grrkiz|xk ut dKxgvn Xnkux-gyg rkgxtotm vrgzluxs lux znk yz|jktzyj|xotm vgtjksoiyoz|gzout ul Ru'kr Gu'oj/3;.lux znk |tjkxmxgj|gzk gtjvuyzmxgj|gzk yz|jktzyul TK gtj Vkykgxin Hkvgxzs ktzul Qgznks gzoiy. WoZoj·g Qgtjox Exzygtj Włoktik Gurrkmk. YzngtmgxgoXgs orRgj|.N|tk47.42420
- **g u4Ryy u4**gt ot ozkj zgrqut ds hkjjotmul Womtkj Vkm|rgxKxgvnygtj ozyW/kizxgrgtgryoy ot znkJoʻk/Hg-Moʻzkxtgzoutgr Gutlkxktik ut Vkiktz Xxktjy ot

- Q gznks gzoiygt j Mzy Ev v roigzout yzu Kxgv ny. R kz"uxgygt j TkzxoRkzy *MGVXQE/KTR/4242+ Winuurul Gus v | zgzout gr gtj Mizkmagzók Wioktiky. Ng"gngargrRkna√l Ytólkayoz∙. Rk" HkmoN r 42 46.42420
- g -u4Ryy u4o;t ot'ozkj zgrqut oNzkxajzkj PuigrXxajt yazoloz: Qujkrlux Womtkj Kxqvny. ot znk utrotk Mylzkxtgzoutgr Gutlkxktik ut Kxgvn Pahkrotmatj Evvroigzouty MoKPE/ 4242 *[khot gx+ot ru' ot ms ks ux ul rgzk Txul OF OHOE i ngx g. Hkvgxzs ktz ul Qgznks gzoiy ul Kug Ytókxyoz. Kug. Wkvzks hkx39/3; .42420
- g -u4Ryy u4gt ot'ozkj zgrqut oNFX Qujkrgtj Wuiogr Rkz" uxq ot znk "khotgxluxznk | tjkxmxgj | gzk yz | jktzy uxmogtorkj h∙ Hkvogxzsktz ul Qogznks ogzoiy. Qogzxk∙o Gurkmk. Yt ó kxyæ ul HkmoS i zuhkx49. 42420
- g -u4 Ryy u4 gt ot'ozkj zgrq ut oXnk ingxgizkxoyzoi vurtus orgrul g mxqvn iutzgototm ruuvy ot znk 4:zn Mizkxt gzout gr Gut lkxkt i k *Zoxz gr+ ul Jux s lux Mizkaj oyi ovrot ga: Q gznks gzoi y *JMQ+/W tkamoky ot Gus v|zgzout gr. Qgznks gzoigr. Wzgzoyzoigr gtj Tn·yoigr Wioktiky *JMQ 4: =WGQ WTW4242+uxmgtoykj h∙ JMQ. Wzkmg Qgxoy Gumkmk. Gnkttgogtj WkoWogy hxgs gtog Rgjgx Gurrkmk ul I t mat kkxat m Ogrg' gqqgs . Xgs ort gj | . Ru' ks hkx45/49.42420
- g -u4Ryy u4gt ot ozkj zgrqoWkizxgrEtgryoyulYtozgx Ejjozout Gg∙rk∙ Kxgvny ut 48zn Mizkxt gzout grGut lkxktik ul Mizkxtqzoutgr Eigiks ∙ ul Tn yoigr Wioktiky ut dEj 'gtiky ot Hollkaktzogr Iw gazouty (Qganks gazoigr Quj krrat m *MS/EHI/QQ/4242+; Nuat zr uxmgt o kj h Winuurul Gus v | zgzoutgrgtj Mizkmxgzók Wioktiky. NRY. Rk" Hkmo(MyzkxtgzoutgrEigjks ⋅ ul Tn · yoigrWioktiky *M2TW-Hki ks hkx3: /42.42420
- g -u4 Ryy u4 gt ot'ozkj zgrq ut oKxgvn Xnkux Evvroigzout ot yki | xotmRkz" uxq0 ot znk ut k/j g· "khotqx zuikrkhxazk znk s gmoi ul s aznks azoiy ut znk k'k ul Razoutar Qaznks azoiy Har. uxmatorkij hr WGNWati WTW Ng" gngxPgrRknx Yt okxyaz·. HkmoHki ks hkx44.42420
- g -u4 Ryy u4 q Wkiogr Pkiz|xk ut dtix vzout qtj Hkix vzout | yotm Kxqvn Wzx iz | xky ut znkk' k ul R gzout gr Q gznks gzó y Hg. uxmgt o kj h. Hkv gxzs kt z ul Qgznks gzoiy. Ogxt gzgqg Ytókxyoz. Hngx"gj. Mijog. Hki ks hkx 44. 42420°Evvxu' kj h∙ EMGXI. Rk" Hkmo Vki umtokj h·Ku′z0ul Ogxt gzggg+
- Yu 4 du u 4 g gk·t uzk zgrg ut d\ndrawlzkmagr zxgt yluxs y ul Jul xokx zvk gtj znkox mktkxgro-gzouty ot znk 6zn Mizkxtqzoutqriutlkxktik ut Vkiktz Ej'gtiky ot Q gznks gzoigr Wioktiky gtjozy Ev v roigzouty uxmgto-kjh

- Ng·vkk Ntlyzoz | zkul Ntlluxs gzout Xkinturum. Ntlj og. Ngt | gx· ; /33.42420
- Yu 4 du u 4 gt ot'ozkj zgrq ut oFu|tjkjtkyy ul Lg|yjuxlluvkxgzuxy ot Pkhkym|k yvgiky ot znk MyzkxtgzoutgrGutlkxktik ut Vkiktz Xxktjy ot Etgryoy (Svzos orgzout *MosVXES/4242+ uxmgtorkj h Rgzoutgr Ntlyzoz|zk ul Xkintoigr Xkginkxyč Xxgototm gtj Vkykgxin *R/MXXV+Fnuvgr.Ru' ks hkx; /33.42420
- **g-u u4 Zu Z4** gt ot ozkj zgrq ut oEvvxu-os gzk yur zout y zu xkgr/rolk vxuhrks y uxmgtokj h∙ Eggr Yto'kxyaz·.Xqr" qtjoWqhu.Fqznatjq.Ru'ks hkx33.42420
- g-u u4Zu Z4gtot'ozkjzgrqutoR∣skxoigrEtgryoyul Wort mil rgxr. Tkxz xhkj Txuhrks y "ozn ynolzy ot Milzkxt gzout gr Gutlkxktik ut Vkiktz Xxktjy ot Gus v | zgzout gr Q kznujy lux Worm rgxn· Tkxz | xhkj Hollkxkt zogr lw | gzout y uxmgt o kj h. NMKK | "gngzoj | xot mS i zuhkx34/36.42420
- Y-u4 bu *Guuxj ot gzux+ättlzkxt gzout gr [uxgynuv ut R|s kxoigrQkznujyot WioktzoloiGusv|zotmčy|vvuxzkjh Wulzn Eyoogt Yto'kxyoz (WVVF.HWX.Jkhx)gx.43/4442420
- **Y-u4bu** *Model ozki Wkgqkx+oSvkt Fuuq I-qs ot gzout = Hollkakt z Tkayv ki zó ky. HaOFnos Vgu Es hkj qga Gurrkmk. Ytókxyaz ul HkmoQg 48.42420
- Y-u4bu *Nt'ozkj Wkgqkx+aNs vgizulw|gyo⊠gxoghrk tujkyutt|s kxoigrotzkmxgzoutulvgxgs kzkxឱlkvktjktz Il tizouty= E Qgvrk y | ozk.Wulz Gusv | zotm Vkykgxin Wuiokz·. Gut mxkyy ut Mtzkrromktz Wyzks y. [uxrj Gut lkxkt i k ot Zoz grluxs gz. Wkvzks hkx27\28.4242
- Y-u4 bu 4 *Ntl' ozkj Wkggkx+; c48zn Ntlzkxt gzout gr Gutlkxktikul Mizkxt gzout grEigjks ⋅ ul Tn ⋅ yoi grWioktiky ut Æj'gtiky of Hollkxktzogrlw|gzouty (Qgznks gzoigr Qujkmot mč *Mot/EHI/QQ/4242+; Nuot zr· uxmojt o kj h· Winuurul Gus v | zgzout grgtj Mizkmxgzók Wioktiky. NRY. Rk" Hkmo(Notakxt gzout gr Eigj ks · ul Tn·yoigr Wiokt iky *MaTWHHki ks hkx3: /42.42420
- Pu u 4 Yu'x Q-ux OZy y g yu y 14 oMizkxtogzoutgrGutlkxktikut Mitu'ogzoutyot Miluxs ogzout gtj Guss|toigzout Xkinturumoky *1/05/MAGX 4242+ RYW Wat mgv uxk. 3: zn Hki ks hkx 4242 *Zoz gr +
- Mij∣yzx Gutyuxzo∣s lux Hgzg Wioktik *EMGHW4242+". [kt•nu|/Okgt Yto'kxyoz·. [kt•nu| Gnotg *Zoxz| grr·+ Hki ks hkx3; /42.42420
- Pu u 4 Yu' x Q-u x 0Zy y g yu y 14 c8zn Mizkxtgzoutgr Gutlkxktik ut Lgxs ut· Wkgxin. Wulz Gus v | zotimgtj Evvroigzouty 4242. Myzgth | r X | xqk · . N r · .

38/39.4242 *Zoz grr +0

- Pu u4 Yu'x Q-ux Ofy wy dy 14 Zoz gr [uxqynuv ut aGurrgzatm Qgznks gzoiy Vkyu xi ky lux Xkginkxy of Lormkx Ij∣igzout uxmogtoikj h Rgzoutgr Vkyu| xik Gktzxk lux Ij | i gzout ulznoy Mrlyzoz| zk. R MTE. R k " Hkm65 i zuhkx28/29, 4242
- **Pu u 4 Yu' x Q-u x 0Zy y g yu y 14** c6zn Mizkxtgzoutgr Nuctz Gutlkxktik ut Ej'gtiky ct Gus v | zgzout gr M/zkmomktik *MMGEGM4242+. uxmgto-kj h-Halluj or Mazkxt azout ar Ytókxyoz. Hngag, Fat maj kyn. Ru' ks hkx42/43.42420
- Pu u 4 Yu'x Q-u x 05 y hu 14 M/lzkxt gzout gr [at zkx Xxqat at mGu| xyk ut aR az| xk Myv oxkj S v zos o azaut Xkintow ky gtj znkox Ev v roi gzouty | yot m Q EXPEF puot zr uxmgtoikj h∙ Irkizxutoiy gtj MGX Eigjks ⋅ . MWK Vuuxqkk gtj Wulz Gus v|zotm Vkykoxin Wuiokz·. Rk" Hkmo Hki ks hkx 23/32.42420
- [-u 4e6a6Ru OW yx g yu y 59E Tyv u 4 ?9?914 oNtzkx'gr 'gr|kj Miz|ozoutoyzoi J|••• Wkz gtj Evvroigzouty. 4t j 4/[kkg Vklxkynkx Gu|xyk ot Gus v | zgzoutgr (Qgznks gzoigr Wioktiky.Xnk L | s gt Vkyu | xik Hk'kruvs ktz Gktzxk. Ngs og Qorrog Myrgs og. Rk" Hkmo0
- gu-u 4gu Z u 4*M/ ozkj W/kgqkx+Po/k "khot qx ut oQgznks gzoigr sujkrotm ot GSZNM/3; Tgtjksoi. TK Hkv gxzs kt zul Q gznks gzó y. HEZ Gurkmk. Es xozygx N r.;. 42420
- qu-u 4 qu Z u 4 *Nt/ ozkj W/kgqkx+. R qzout qr rk' kr "khotgx ut oQgznks gzoigr sujkrotm ut xkiktz kvojks ourumoj groyy ky=GSZNM1/3; joykgyk gtjozy i utzxur yzxqzkmoky. Hkvgxzs ktz ul Qgznks gzoiy gtj NUEG Qgngj k' gt gt j g Qgng' oj · grg· g. Fgxxgi qv uxk. Ourqgzg. N r 32.42420
- gu-u 4 gu Z u 4 *M' akj Wkgqkx+ QEXPEF lux kvojks ourum gtj kiurum? [uxgynuv ut Fous gznks gzoiy. Hkv gxzs ktz ul Q gznks gzoiy. NWN Tgztg. Hki ks hkx: /33.42420

gu-u 4 gu Z u 4 *Mt ' ozkj W k gqk x+. 48 zn Mizkxtgzoutgr Gutlkxktik ul Mizkxtgzoutgr Eigjks · ul Tn·yoigrWioktiky ut Æji'gtiky ot Hollkxktzogrlw|gzouty (Qgznks gzoigr Qujkmotmč*Mos/EHI/QQ/4242+ Nuotzr uxmgtorkj h∙ Winuurul Gusv|zgzoutgrgtj Mizkmxgzórk Wioktiky.NRY.Rk" Hkmo/332289 (Nt/zkxtgzoutgrEigjks · ul Tn·yoʻgrWioktiky*M2TWHHkiks hkx3:/42.42420

du y d y y yx u x [yw y Ry y yx

[-u 4e a Ru -4d\takx' qr/' qr kj \takz \cout oyzoi J \cdots XSTWWWs kznuj lux Wyvrokx Wkrkizout Txuhrks gzoXnk Jolzkkt zn Mazkxt gzout gr Gut Ikxkt i k ut J | ••• Wkz Xnkux gtj Evvroigzouty/4242. Povzu'yg Ngt. Wru'gg Vkv|hroi. 48/531231420

Ongt. QW gtj [-u 4 e a Ru -4 oŒzgtgyyu'y otz|ozoutoyzoil| ••• skgy|xkhgykjutznk W|mktu otzkmxgr otj|ikj h· *. ⊬i|z gz o4242 MII Molzkxtgzoutgr Gutlkxktik ut J ••• Wyzks y *JY''/MII+. Krgymu". Yt ozkj Odrmjus .3; /461291420

Wgnor. EOOg | yngr. Q Ogt j [-u 4e a Ru -4cE Tgxghuroi Fgykj J | ••• Hgzg It' kruvs ktz Et gr. yoy Quj kr "ozn gt Evvroigzout gz c4242 MII Mizkxtgzoutgr Gutlkxktik ut J | ••• Wyzks y*JY''/MII+.Krgymu".Yt ozkj Oot mj us .3; / 461291420

Zgxynt $k \cdot . E0[$ -u **4e a Ru** - qt j Q| n| xo Txqt qh O0 oNslvxu'kj Txuhqhoroyzoi Miz|ozoutoyzoi J| ••• i/Qkqty Grl yzkxat m Ermuxazns = Msl v xu' kj TMGQ az a4242 MII l Mizkxt azaut ar Gut Ikxkt i k ut J ... Wyzks y *JY''/MII+. Krgymu". Yt ozkj Odt mj us .3; /461291420

Zgxynt $k \cdot .E0Q$ knxg. $T0Q \mid n \mid x_0 Tx_{Q}t$ gh O0 gt j [-u 4e a Ru -4 alt/lzkx' gr/Zgr kj J · · · i/Q kgt y Emuxozns gt j Mizkx' gr/Zgr kj Hkt yoz /Fgykj J ··· i/Q kgt y Ermuxozns gz c4242 MIII Mizkxt gzout gr Gut Ikxkt i k ut J | ••• Wyzks y *JY''/MII+.Krgymu".Yt ozkj Odimjus.3;/461291420

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3	2502404242	IlloioktzErmuxoznsyluxI'gi gzout TrgttotmTxuhrksy	Txul0XgtqgRgznHngsgrg.Xxdnn 'gtYtólkxycz∙. Rkvgr
4	4403404242	Rgzout grQgznks gzoiyHg⋅	Hx0E000Emxg"gr.lskxoz yTxulkyyux T tpghYto'kxyoz:.Gngtjomgxn

c -y Ow y u x Ow- y y

- g -u4Ryy u4*Qks hkxulRgzoutgrEj'oyux Gus s ozzkk+Joʻk/Hg· MilzkxtgzoutgrGutlkxktik ut Vkiktz Xxktjy ot Qgznks gzoiygtj MzyEvvroigzoutyzuKxgvny.Rkz"uxqygtj TkzxoRkzy*MilVXQE/KTR/4242+WinuurulGusv|zogzoutgrgtj Milzkmxgzoʻk Wioktiky.Ng"gngxrgrRknx|Ytoʻkxyoz·.Rk"Hkmo/332289.Mijog,Njr42 46.42420
- g -u4 Ryy u4 *Gngokj Wkyyout+ ot znk Jolk/ Hg-Ntzkxtgzoutgr Gutlkxktik ut Vkiktz Xxktjy ot Qgznks gzoiygtj MzyEvvroigzoutyzuKxgvny.Rkz" uxqygtj TkzxoRkzy *MGVXQE/KTR/4242+Winuurul Gus v| zgzoutgr gtj Mrzkmxgzolk Wioktiky. Ng" gngxrgr Rknx| Ytolkxyoz.Rk" Hkmo/332289.Mj og.Nr 42 46.42420
- **g** -**u4** Ryy **u4** *Gngokj Wkyyout \pm Ju| x/Hg· Strotk Rgzout gr Gut lkxkt i k ut T| xk gt j Evvrokj Qgznks gzoiy *R GTE Q/4242 \pm S xmgt o kj h· Hkv gxzs kt z ul Qgznks gzoiy. Ogxt gzgqg, Mj og, E| mj yz33/36. 42420
- g u4Ryy u4*Qks hkxulRgzoutgrEjʻoyux-Gus s ozzkk+X"u/Hg-MizkxtgzoutgrGutlkxktikutls kxmotmXxktjyot ZkjoiQgznks gzoiy(EvvroigzoutyotWioktik.Xkinturum gtj Wuiogr Wioktiky Ng"gngxrgrRknx|Yto'kxyoz-.Rk" Hkmo/332289.Mijog.nkrj utrotkj|xotmE|m|yz38 39.42420
- g u.4 Ryy u.4 *Qks hkx ul Wicktzdoi Txumxgs Gus sozzkk+ utrotk Mizkxtgzoutgr Gutlkxktik ut Kxgvn Pghkrotmgtj Evvroigzouty MSKPE/4242*[khotgx+otru'otm sks ux ul rgzk Txulo FoHo Eingx-g. Hkvgxzsktz ul Qgznks gzoiy ul Kug Ytókxyoz·. Kug/Mijog. Wkvzkshkx39/ 3;.42420
- g -u4Ryy u4*Gut'ktkx+48zn MizkxtgzoutgrGutlkxktik ul MizkxtgzoutgrEigjks · ul Tn·yoigrWioktiky ut Ej'gtiky of HollkxktzogrIw|gzouty (Qgznks gzoigr

- Qujkmotmoč*Mos/EHI/QQ/4242+ Nuotzr· uxmogtorkj h-Winuurul Gusv|zozoutgrgtj Mizkmogzoʻk Wioktiky. NRY. Rk" Hkmo/332289 (MizkxtgzoutgrEigjks· ul Tn·yoigr Wioktiky*METWHHkiks hkx3: /42.42420
- **g u4 Ryy u4** *Gngoskj ykyyout + ot znk ut rot k Mtzkxt gzout gr Gut Ikxkt i k ut Kxgvn Pghkrot m gt j Evvroi gzout y MGK PE/4242 *[khot gx+ot ru' ot ms ks ux ul rgzk Txul OF OHOE i ngx·g. Hkvgxzs kt zul Qgznks gzoi y ul Kug Yt oʻkxyoz·.Kug/Mtj og. Wkvzks hkx39/3;.42420
- gg -u4 Ryy u4 *Gngokj Wkyyout + 4: zn Mizkxtgzoutgr Gutlkxktik *Zoz|gr+ ul Jux|s lux Mizkxjoyiovrotgx. Qgznks gzoiy *JMQ+/Wtkxmoky of Gus v|zgzoutgr. Qgznks gzoigr. Wzgzoyzoigr gtj Tn·yoigr Wioktiky *JMQ 4:= WGQWTW 4242+uxmgtoykj h·JMQ. Wzkmg Qgxoy Gumkmk. Gnkttgo gtj Wko Woigy|hxgs gtog Rgjgx Gumkmk ul Itmotkkxotm Ogrg'gqqgs .Xgs ortgj|.Mijog.Ru'ks hkx45/49.42420
- g -u4 Ryy u4 *Gngo-kj Wkyyout + 48zn Mrzkxtgzoutgr Gutlkxktik ul MrzkxtgzoutgrEigjks · ul Tn·yoigrWicktiky ut dEj'gtiky of HollkxktzogrIw|gzouty (Qgznksgzoigr Qujkmotm *Mos/EHI/QQ/4242+ Nuotzr· uxmgto-kj h· Winuurul Gusv|zgzoutgrgtj Mrzkmogzo'k Wicktiky. NRY. Rk" Hkmo/332289 (MrzkxtgzoutgrEigjks · ul Tn·yoigr Wicktiky*METW-Hkikshkx3:/42.42420
- **g -u4Ryy u4***Gngoxkj Wkyyout+:8znEtt|grGutlkxktik ul Xnk Mijogt Qgznks gzoigr Wuiokz· Et Mizkxtgzoutgr Qkkz ZMIZkmruxk *Strotk Gutlkxktik+Hkiks hkx39 42. 42420
- Yu 4du u 4*Wkyyout Gngoxkj +: 8zn Ett | gr Gut lkxktik ul Xnk Mijogt Qoznks gzoigr Wuiokz: Et Mizkxt gzout gr Qkkz. ZM Zkmuxk *Strotk Gut lkxktik+Hkiks hkx 39 42. 42420
- g-u u4 Zu Z4 *Gngokj Wkyyout + 48zn Mizkxt gzout gr Gutlkxktik ul Mizkxt gzout grEigjks · ul Tn·yoigr Wioktiky ut dEj 'gtiky of Hollkxkt zogrlw| gzout y (Qgznks gzoigr Qujkmotm *Mos/EHI/QQ/4242+ Nuotzr· uxmgtoikj h· Winuur ul Gus v | zgzout grgtj Mizkmxgzoik Wioktiky. NRY. Rk" Hkmo/332289 (Mizkxt gzout grEigjks · ul Tn·yoigr Wioktiky*METW+Hkiks hkx3:/42.42420

- g-u u4 Zu Z4 *Gngokj Wkyyout + Mizkxt gzout gr Gut lkxkt i k ut Mizkmxgzkj Mizkxj oyi ov rot gx Mit u' gzout y ot I t mot kkxot m*MosMM 4242 + Tgt pgh Y t oʻkxyoz . Gngt j omgxn Ixus 4:/52 E| m| yz.42420
- g-u u4 Zu Z4 *Gngoxs gt. Wicktzoloi Ej'oyux Gus sozzkk+ Mizkxtgzoutgr Gutlkxktik ut Mizkmxgzkj Mizkxjoyiovrotgx: Mitu'gzouty of Itmotkkxotm* MinMi 4242+ TgtpghYtolkxyoz:.Gngtjomgxnlxus 4:/52E|m/yz.42420
- Y-u4 bu 4 *Tgxzoi ov gt z+ Mtzkxt gzout gr "khot gx ut U| ot zoi gt j U| ot zoi gzkj t ut rot kgx uyi orrgzuxy. Tuuxt os g Gurrkmk ul I t mot kkxot m Ouzg. Vgpogyzngt. 39/N t k/42420
- Y-u4bu 4*Tgxzoiovgtz+X"ujg-yotzkxtgzoutgr"k hotigx ut gxzoloiogrotzkmomktik gtjs ginotk rkgxtotm.9 :N,r. 4242.FghgJgxoj Gumkmk.Tgzogrg
- Y-u4 bu 4 *Wkyyout Gngox+ 48zn Mtzkxtgzoutgr Gutlkxktik ul MtzkxtgzoutgrEigjks·ulTn·yoigrWioktiky ut Æj'gtiky of HollkxktzogrIw|gzouty(Qgznksgzoigr Qujkmotmč*Mof/EHI/QQ/4242+ Nuotzr·uxmgtoikjh-Winuurul Gusv|zgzoutgrgtj Mtzkmxgzokk Wioktiky.NRY. Rk" Hkmo/332289(MtzkxtgzoutgrEigjks·ulTn·yoigr Wioktiky*METWHkikshkx3:/42.42420

- Y-u4 bu 4 *Wkyyout Gngox+ Exzoloiogr Mizkmomktik. Wkvzks hkx27/28.4242. WulzGus v | zotmVkykgxin Wuiokz. Gutmakyy ut Mizkmomktz Wyzks y. [uxnj Gutlkxktik ot Zoz] grluxs gz+
- Pu u 4 Yu'x Q-u x 4 OUy y u Q-u 1 6zn Mizkxt gzaut gr Nu c z Gut Ikxkt i k ut Ej'gt i ky ct Gus v | zgzaut gr Mizkmomkt i k *MGEGM4242+ uxmgt o kj hHglluj or Mizkxt gzaut gr Yt o kxyaz . Hngqg. Fgt mgj kyn ut 42/43 Ru'ks hkx42420
- Pu u 4 Yu'x Q-u x 4 (Uy y u Q-u u x gy Q-u 1432zn Mtzkxt gzout gr Gut lkxkt i k ut Wulz Gus $v \mid z$ ot m lux Txuhrks Wur' ot m 4242 uxmgt o kj h· MM Mtj uxk Mtj og. j | xot m 3: /42 Hki 042420
- gu-u 4 gu Z u 4 *Gngokj Wkyyout + 48zn Młzkxt gzout gr Gut Ikxkt i k ul Młzkxt gzout gr Eigj ks · ul Tn·yoi gr Wiokt i ky ut oEj 'gt i ky ot Hollkxkt zogr I w gzout y (Qgznks gzoi gr Quj kmot m *Mos/EHI/QQ/4242+ Nuot zr·uxmgt oikj h·Winuur ul Gus v | zgzout gr gt j Młzkmxgzoi k Wiokt i ky. NRY. Rk" Hkrno/332289 (Młzkxt gzout gr Eigj ks · ul Tn·yoi gr Wiokt i ky *Met Tw-Hki ks hkx3: /42.42420





Department of International Relations

Faculty of Social Sciences

M1 znoy · kgx ul 'oz| grirgyyxuus y gtj yks otgxy. znk Hkvgxzs ktz ul M1zkxtgzoutgrVkrgzouty iutzot| kj "ozn ozy klluxzy zu gj'gtik znk yz| j · ul M1zkxtgzoutgrVkrgzouty ot Wu| zn EyogO[ozn znk gos zu j xg"gzzktzoutzu znk xkmoutgr j os ktyouty ul znk vgtjks oi. oz uxmgtoykj g "khotgx ut d'uyz/Gu'oj Wu| zn Eyogt Fuxjkxyč ot Ru'ks hkx 42420 Ejjozoutgr·m| kyzyvkgqkxyjkrókxkjyks otgxyutgxgtmk ul y| hpkizy. otir| j otm j oyvrgiks ktz j | xotm znk Tgxzozout*y+t| irkgxvurozoiy.vu"kxotznkjomozgrgmk.xurk ul tut/yzgzk gizuxy ot znk vgtjks oi. gtj joyiovrotgxhu| tjgxokyul M10

Xnk Hkv gxzs ktz i urrghuxgzkj " ozn znk Mrjogt Gu| tiorul [uxrj Ellgoxyzu uxmgtoykg" khotgxuto{ us ktgtj Tu" kx= Kktj kx " oznot Mrzkxtgzoutgr Vkrgzoutygtj Hovrusgi·čot Sizuhkx42420[khotgxy" kxk gryu uxmgtoykj zu rg| tin znk v| hroigzout ul z" u huuqy. Og| zor·gŏy Exzngyngyzxg= Tnoruyuvn· ul Wzxgzkm *Vu| zrkj mk+g| znuxkj h· Hx0 Qkj ng Foynz gtj Rk" Hoxkizoutyot [us kt. Tkgik gtj Wki | xoz·*FxoyzurYtokxyoz·Txkyy+iu/kjozkj h· Hx0Wu| s ozg Fgy| 0

Mtjkkj. znoy "gy g v gxzoi| rgxr· v xuj | izó k · kgx lux znk Hkv gxzs ktz 0Ey j kzgorkj gz znk kt j ul znk xkv uxz ló k TnH gt j ut k Q Tnorj kmxkky" kxk g"gxj kj zu xkykgxin yi nurgxy? znoy oy g zkyzgs ktz zu znk otzkrrkiz gt j v kxyk' kxgt i k ul u | x yz | j ktz huj · 0 Jgi | rz· s ks hkxy gt j yz | j ktzy v | hroynkj ut g "oj k gxxg· ul zuvoiy. otir | j otm huxj kxy gt j hu | t j gxoky. mkuv urozoiy. oj ktzoz· gt j yki | xoz·. s gxozos k Wu | zn Eyog. zxgtyt gzout gr i | xgzout. gt j YR vuroioky. ot v xus ot ktzgi gj ks oi pu | xt gry0

Mr Ngt | gx 4242. znk Nu | xtgrul znk Mrjogt Sikgt Vkmout su'kj zu znk Hkvgxzsktz. "ozn Txulkyyux Wgtpog-Gngz|x'kjoykx'otmgyznk Gnokl Ijozux0Jgi | rz skshkxy "kxk ot'ozkj zu xk'ok" lux vxkyzomou | ypu | xtgry. otir | jotm Mrzkxtgzoutgr Ellgoxy. Mrzkxtgzoutgr Jksotoyz Nu | xtgrul Turozoiy. Mrzkxtgzoutgr Wz | joky U | gxzkxr. Nu | xtgrul Fuxjkxrgtjy Wz | joky. Xnoxj [uxrj U | gxzkxr. gy "krrgy v | hroynkxy. otir | jotm Gur | shoog Yto'kxyoz-Txkyy. Tgrmxog'k Qgisorgt. S-luxj Yto'kxyoz-Txkyygtj Vu | zrkjmk0

Eygxkmout gr|tókxyoz.znkHkvgxzsktzóygzzktzókzuznk

tkkj zu luyzkx yi nurgxr· i urrghuxgzouty gtj tkz" uxqy ot Wu|zn Eyog0 Jgi|rz·s ks hkxy ullkxkj znkox k-v kxzoyk zu |tó kxyozoky gtj uxmgtoygzouty ot znk jk' kruvs ktz ul rkgxtotmgtj xkykgxin v xumxgs y xkrgzotmzu otzkxtgzoutgr xkrgzouty0 Xnk· "kxk gryu ot'ozkj zu yngxk znkox xkykgxin "ozn yi nurgxr·i us s |tozoky ot znk xkmout gtj hk·utj. "ozn zkinturum gjjxkyyotmznk i utyzxgotzy ut vn·yoigr zxg'kr0

Xnk ginok'ks ktzyu | zrotkj ot znoyxkvuxzjks utyzxgzkznk xkyoroktik ulyz | jktzy. | gi | rz skshkxy gtj ulloik yzgll "nuyzxu'k zuxkgroskznk sgtjgzkulznk | to kxyoz.k'ktgyznk·ktiu | tzkxkjyk'kxgringrrktmky "xu | mmz / gtjhxu | mmz zurommz / h·znk vgtjksoi. | xusnkgrzniutikxtyzuyuiogrotkw | ozoky. gsutmuznkxyOXnkrkyyutyrkgxtzotznkvxuikyy. otir | jot mznk gxzulzoskrott/s | zotmčututrotkvrgzluxsy.ynu | rjykx'k | ygrr"krrotznkiusotm kgxyO

g xy ux yxuxw 5 yvyu5 buyzd'u yHa6O6Wyu ufyu

Pu w-H 9?9

Elmgt øyzgt	9	9 Qgrjóky	
Fgt mrgj kyn	7	7 Rkvgr	
Fn zgt	2	Tgqqyzgt	2
Nt) og	35	WkoPgt qg	2
S znkxy	2		

buyzd'uyHa6d-7d-6RWyuufyu

Pu w-HD

Elmgt øyzgt	3	Qgrjóky	2
Fgt mrgj kyn	3	Rkvgr	3
Fn zgt	2	Tgqqyzgt	2
Nt)jog	5	WkoPgt qg	2
S znkxy	2		

Ryu zTuw ay vy

	bu y	d–R Ozz u . nyu	Ry'u	Oyuzgywuu 7Wyy
	Wgtpg- Gngz x'kjo	Tgt pgh Yt oʻk xyoz:. Gngt ji omgxn. Milji og 3;:;	Txulkyyux Hkgt.JWW(Gngox/kxyut /Hkvz0ulMM	Xnkuxokygtj Txgizoikyul Kkuvurozoiy" ozn W/kiogrVklkxktik zu TurgxVkmoutygtj Mrljogt Sikgt.Gros gzk Gngtmk.Rut/[kyzkxt M/
-	Wu∣s ozg Fgy∣	Ehkx-yz" · zn Ytókxyoz·. YO. 422;	Eyygyzgtz Txulkyyux *WK+	Xnk Ytozkj Rgzouty. Jks otoyz Mizkxtgzoutgr Vkrgzouty. Gxozoigr Wki xoz. Wz joky. YR Wki xoz. Gu tior Vkyur zouty ut[usktgtj Tkgikgtj Wki xoz Q rzorgzkxgr Hovrusgi.
9	Qkj ngF o ynz	Ng"gngxngrRknx Ytókxyoz∙. Rk"HkmoNn1jog 4232	Eyyoyzgt z Txulkyyux *WK+	Eyoogt Wexgezkmoi Xnu mmz.[gzkxKu'kxtgtikgtj Hovrus gi∙.Wu zn Eyoogt Turozoiy
E	Rghgx t Vu∙	Ggxrkzut Ytókxyaz∙. Szzg"g. Ggtgjg 4233	Eyyoyzgt z Txulkyyux *WK+	Xnkuxoky ul Mrzkxt gzout grVkrgzout y. Mrjogt Juxkomt Turoi·. Kxkgz Tu"kxy ot Mrzkxt gzout gr Vkrgzout y. Kkuv urozoiy ul Eyog gtj Wu zn Eyog
(Wh"kzgWotmn	Winuurul Mizkxt gzout grWz joky. Ng"gngxngrRknx Yto'kxyoz∙.Rk" Hkmo Mijog.4234	Eyygyzgtz Txulkyyux *WK+	Jks ot oyz Molzkxt gzout grVkrgzout y. Jks ot oyz Tkgik Vkykgxin. GxozoigrTkgik gtj Gutlroiz Wz joky *Wu zn Eyog+[us kt. Tkgik gtj Wki xoz-*Wu zn Eyog+GxozoigrTkgik Ij igzout. Exkg yz joky Iui y≕WxoPgt qg. Ogyns ox gtj Elmngtoyzgt
13	Hngt gt pg- Xxov gzno	Ng"gngxrgrRknx Ytókxyoz∙. Rk"HkmoNn1jog. 4232	Eyyoyzgt z Txulkyyux *WK+	Vkmouty.Vkmoutgroys gtjFuxjkxy*Wu znEyog(I xuvk+gtjTurozoigrliutus·
	Ng∙gynxkk Zó kagt gtjgt	Ng"gngxngrRknx Ytókxyoz∙. Rk"HkmoNn1jog. 422:	Eyygyzgt z Txulkyyux *WK+	Loyzux gtj Miznkux. Mijogt yzxgzkmoi znu mnz gtj vxgizoik.sks ux vurozoiy.zxgtyhu tjgx xkyu xik mu'kxtgtik ot Wu zn Eyog

U u u x Ty – w zy yx y vy z –y Tuw

Txotiovgr Mt'kyzomgzux Xozrk ul Kxgtz J|tjotm Emkti·. H|xgzoutulTxupkiz.U|gtz|s ulJ|tjotm

- Pu 4g u "gyg"gyjkj g Vkykgxin Jkmu"ynov "ozn znk Gkt zxk lux Kkt j kxgt j Elxoig Wzlj joky. Yt oʻkxyoz ul znk Jxkk Wzgzk. Fruks lut zkot. Wul zn Elxoig. lux znk v kxouj Qg-3.4242/Evxor52.42450
- **P 4 a yx u** "gy g"gxjkj g Guty|rzgti· Kxgtz h·S]JEQ. Ggs hujog zu rkgj g xkykgxin v xupkiz ut Mrljomktu|y[us ktöyvgxzoiovgzoutot[gzkxKu'kxtgtikotXxgtyhu|tjgx:[gzkxKu'kxtgtikotznk Xxgtyhu|tjgx:Qkmmtg Fgyotrot Wu|zn Eyog. Wkvzks hkx 4242/Ngt|gx:42430

Sx u 7f y y 'u x f yzy yy O y

- Pu 4g u puotikij znk lijozouxoogr Fugxij ul Vk'ok" ul Milzkxt gzout gr Wzljoky *Ggs hxojimk Yto'kxyoz: Txkyy+ ot Ngt|gx: 42420
- Pu 4 g u ykx'kj gy g vkkx/xk'dx"kx lux Gutzks vuxgx Turozoiy. Kruhgr Wuidkz:. Mizkxt gzout gr Ellgoxy. Mizkxt gzout gr Jks droyz Nu|xt gr ul Turozoiy. Mizkxt gzout gr Wz j dkyU|gxzkxr-gt j Turozoiy(Kkt j kx0

- **Pu 4g u** xk'ok"kj huuq vxuvuygry lux Fxoyzur Yto'kxyoz∙Txkyy.Gur∣s hogYto'kxyoz∙TxkyygtjVu|zrkjmk0
- Pu 4g uykx'kj gygskshkxulznkltrukE"gxj Gussozzkk ul znk Mizkxtgzoutgr Jksotoyz Nu∣xtgr ul TurozoiyO
- Pu 4g u ykx'kj gy Exkg Ijozux Jks otoyz Mrlzkxt gzout gr Vkrgzout y. Iux S-Iuxj Fohroumxgv noky ot Mrlzkxt gzout grVkrgzout y0
- P 4 a yx u ykx'kj gy g vkkx/xk'ok"kx lux Wzxgzkmoi Et gr. yoy. Mizkxt gzout grWz|j oky. Xgx-oVkykgxin Ju|tj gzout. Elmogt oyzgt. Shykx'kxVkykgxin Ju|tj gzout. Rk"Hkmo0
- Q-u yx 4 gu u i ut zot | ky zu ykx' k ut znk kj ozuxogr hugxj ul Wzxgzkmoi Et gr. yoy *Vu| zrkj mk+ Mij og U| gxzkxr: *Wgmk+ Mizkxt gzout gr Ej'oyux: Fugxj y ul Nu| xt gr ul Fuxj kxrgt j Wzlj oky *Vu| zrkj mk+ gt j Nu| xt gr ul Kruhgr Jg| rzrot ky. *Tr| zu+? gt j I j ozuxogr Ej'oyux: Fugxj ul Mij ogt Juxkomt Ellgoxy Nu| xt gr=E U| gxzkxr: ul znk Eyyui ogzout ul Mij ogt Hovrus gzy0
- **Q-u yx 4 gu u** zuuq u'kx gy znk Gnokl I jozux ul Nu|xtgrulznk Mijogt Sikgt Vkmout *Vu|zrkjmk+ot Qgxin 42420



Q-u yx 4gu u puotkj znk Fugxj ul Ej'oyuxy. Nu| xt gr ul Mizkxt gzout gr Vkrgzout y. Hkv gxzs kt z ul Mizkxt gzout gr Vkrgzout y. Yt oʻkxyoz ul Hngqg. ot Jkhx| gx: 42420

Q-u yx 4 gu u xk' dx" kj g huuq vxuvuygr lux Tgmxg' k Q gis orgt 0

- **f 4buvu** ykx'kj gygvkkx/xk'ok"kxluxznk Nu|xtgrulznk Ntlj ogt Sikgt Vkmout 0
- **h u 4R u u u** puotkj znkljozuxoogrFugxjulNu|xtgrulFuxjkxrgtjyWz|joky*Xg-ruxgtj Jxgtioy+otRu'kshkx 4242
- h u 4R u u u xk'ok" kj huuqvxuvuygrylux S luxj Yto'kxyoz· Txkyy. Wgmk T|hroigzout gtj Vu|zrkjmk T|hroigzout 0
- h u 4 R u u u ykx'kj gy g vkkx/xk'ok"kx lux MrlzkxtgzoutgrWz|joky.FMOVk'ok". Nu|xtgrulFuxjkxrgtjy Wz|joky.MrljogtGu|tiorul[uxnjEllgoxyTgvkxKruigroys. Nu|xtgrulEyogtgtjElxoigtWz|joky.gtjTurozoiy.VkromoutgtjNjkurum
- g '-4g- y u Qks hkx Gus sozzkk ut znk Wzgz|y ul It mgmks ktz "ozn znk Kruhgr Wu|zn Qks hkxy. MrzkxtgzoutgrWz|j okyEyyuiogzout.Qgxin4242/Qgxin4244
- **g '-4g y u** ykx'kj gy vkkx/xk'ok"kx lux Mizkxt gzout gr Jks ot oyz Nu∣xt gr ul Turozoiy. Xnoxj [uxrj U|gxzkxr·. Tkgikh|onjotm0
- **g '-4g- y u** puotikj znk ljozuxoogr Fugxj. Fuuq Wkxoky. Kktjkx Wk-|groz∙ gtj Kruhgr Turozoiy. Fxoyzur Yto'kxyoz Txkyy

Oyayvy – z bu u7Wyu uPxy

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Foynz Q00g| zor-göy Exzngyngyzxg=Tnoruyuvn-ul Wzxgzkm. Put j ut . Rk" _uxq=Vu| zrkj mk. 4242. NMFR ; 9: /2/589/69; 37/4

Sx yxj

Pu 4g64Ooch..T0gtj Whkvnkxj.P0N0*kjy0Hk" Hoxkizouty ot [uskt.Tkgikgtj Wki|xoz..Fxoyzur=FxoyzurYto'kxyoz. Txkyy. **MF**R = 374; 4299760

O wy7Q-u y Y u

- Pu 4Wu|s ozg0gtj R|tky. N0 čLkgrzn Gxoyky ut znk YR Wki|xoz: Gu|tiončý Emktjg=[ngz Huky MzQkgt lux Kruhgr Lkgrzn Cč Wzxgzkmoi Etgr. yoy. 66*7+=642/64:. MWWR=2;92/23830
- P 4Qkj ng0ð

 ču"gxjygtkz"uxqkj yzxgzkm ⊨xgs k"uxq lux s gxozos k Wu|zn Eyongč Nu|xtgrul znk Mijongt Sikgt Vkmout.38*4+∋: 4/423=NMWR=⇒; 6:32:].3; 6:2::3
- P 4Q kj ng0 ð xus Tgyz Pkgt ot myzu J|z|xk Sxokt zgzout y= Vklrki zout y ut Fn|zgt vuroi·zu"gxj y Mrjog |tjkx Qujo 402 čot Wgqn|pg *kj 0+ Tkt zgmut _kgxhuuq 4242=Wu|zn Eyog Hklktik gtj Wzxgzkmoi Tkxyv kizók. Rk" Hkmo 42420MWNR/32 = 3; 6687; 530
- f 4Rghgx|t0Vk'ok" ulWngynoXngxuuxgtjWgsoxWgxgt. XnkRk" [uxnj Hoyuxjkxgtj znkM1jogt M3vkxgzókot Nu|xtgrulznkM1jogt SikgtVkmout.38*4+*4242+ HSM4 32032:213;6:2::304242089895:60
- g '-44Wh" kzg.dMthkz" kkt znk | rks gygtj ruigr" gxruxjy ot Elmngtoyzgt = ixozoigr vkxyvkizó ky ut znk dk'kx-jg·. tuxs zxgtyrgzout.gtj YRWGV3547.MtzkxtgzoutgrJks otoyz Nu | xtgr ul Turozoiy. 4242. 44=6. 726/747. HSM=32032:21368389640424203:327:90
- g x400Wgt pol gt j Xxov gzno Hngt gt pg. dv1j ogt Fuxj kxy dt znk lxg ul GS ZNH 3; . Fuxj kxy dt Kruhgro•gzout Vk' dx". 4242.44*3 ⊨v v 0322/325. NNWR=4784/;;350
- j y u u xu 4 Ng-gynxkk.oXnk l·kj Wojk ul znk Krgyyĕ= XxgtytgzoutgrG|xgzoutgtjznk Turozoiyull–nohozotmznk Is voxk ot g vuyz/Msvkxogr[uxrj.Tuyziurutogr Wz|joky. HSMS2082:21358::9;20424203:2574;0

–u y Sx yxj y

- Q-u yx 4 Wgt pg·. čXnk Eyogt Igizux ot čExizoi iuttkizoʻoz-čekiurum.mkuvurozoiygtj znkyuiogrčot Gnon_0 _uut Org|y Hujjygtj čShykx'ot mčznk Exizoi=Eyog ot znk Exizoi Gu|tiorgtj Fk·utj *Gnkrzktngs = Ij"gxj Imngx 4242+vv0.4/3240
- Q-u yx 4 Wgtpog·. of yzxgtmkj Hks uixgioky ot znk Kkuvurozoiy ul Wholzotm Errogtiky ot znk Melju/Tgioloi = Tkxyvkizolky Jxus gtj St Meljogčot Fgxz Kgktygtj Zoork Wotqqutkt *kjyO+KxkgzTu"kxGus vkzozoutgtj VoyotmYW GnotgVolgrx.Jottoyn Melyod zkul MelzkxtgzoutgrEllgoxy*JMel+ Wkvzkshkx4242⇒337/3680

yOxx y y u x W yx hu

- Pu 4Wu|s ozgočilluxzy zu Hki urut oik Mizkxt gzout gr Tkgik gtj Wki∣xoz - =Gutzk-z|gro∙otm znk [TWEmktjgčot'ozkj v gv kxv xkykt zkj gzznk xkykgxin yks ot gx K ktj kxot mTkgik gtj Wki|xoz·/Elxoigt Tkxyvkizolky ut znk 42zn Ettolkxygx-ulYRWGV3547.uxmgtoykjh-znkRuxjoiElxoig Myzoz zk. Yvvygrg. W kj kt. Qgxin;.42420
- Pu 4 Wu|s ozq0 oKktjkxkj Hosktyouty ul znk Ytozkj Rojzouty Wki | xoz. Gu | tior= Wusk Ruzky lux Mijogčy Yvius otm Xkxs *4243/4244+ ot'ozkj v gvkx v xkykt zkj gz znk "khotgx [uskt gtj Tu"kx=Kktjkx "oznot MizkxtgzoutgrVkrgzoutygtj Hovrusgi∙.uxmgtoykj h∙znk Ntjoogt Gu∣tiorul[uxnj Ellgoxygtj Wu∣zn Eyoogt Yto'kxyoz∙. ut rot k. S i zuhkx37.42420
- Pu 4 Wu s ozgo čHk/s orozgxo-otm gtj Hk/iuruto-otm znk [TWEnrktjg=Fkz"kktoznkTkyyos oys ulznk Mizkmkizgtj znk Svzos oys ulznk [orrčqk·tuzk yvkkin molkt gzznk *utrotk+iutlkxktik ut Gkrkhxgzotm 42 _kgxy ul YRWGV 3547=Tgyz. Txkyktzgtj J|z|xkulznk[uskt. Tkgikgtj Wki∣xoz Emktjg. uxmgtoykj h∙znk WgtzÆttg Winuurul Ej 'gtikj Wz| j oky. Toyg. ut rotk. Ru'ks hkx6.42420
- P 4 Qkj ng0 & k-| y Trgttotm lux Juuj Itkxm gtj It'oxutsktzgrWki|xoz-čuxmgtoykjh-MiGR.Fgtmquq.N|r-44.42420
- P 4Q kj ng0ti j xu/j ovrus gi · gyg zuur luxi uuv kxgzó k "gzkxmu'kxtgtikčuxmgtoykjh MiGR.Fgtmquq.E|m/yz7. 42420
- P 4Q kj ng0 čHogrum k ut [gzkxHovrus gi·čGktzxk lux T∣hroi Turoi · gtj Ku'kxtgtik. uxmgtoykj h · Juxs gt Gnxoyzogt Gurrkmk. Pgnuxk. Tgqoyzgt . N r 52.42420
- P 4 Qkj ng0 čG rz xk Qkkzy L·j xuj ovrus gi·č Gut'kxygzout "ozn Txulkyyux Ngsor Enskj. Hngqg Yto'kxyoz∙. Fgtmrgjkyn uxmgtoykj h- Eyoogt Gutlr∣ktik. E| m yz53.42420
- P 4Q kj ng0 ₹ nu i ut zxuryznk [gzkx=Tkxyv ki zó ky lxus IY gtj Wu|zn Eyogč Gut'kxygzout "ozn Qy0 Ogs org Oxoyzktykt Vgo Gu∣tiorux IY. uxmgtoykj h∙ LWWEWGSR. Ru' ks hkx7.42420
- P 4 Q kj ng0 čOg| zor gčy Exzngyngyzxg= Tnoruyuvn · ul Wexgzkm čuxmgtoykj h∙ Shykx'kx Vkykgxin Ju∣tjgzout. Rk" HkmoRu' ks hkx3.42420
- P 4 Q kj ng0 čOg| zor gčy Exzngyngyzxg= Tnoruyuvn ul Wzxgzkm čuxmgtoykj h∙ Hkmo Ytolkxyoz∙. Rk" Hkmo Ru' ks hkx42.42420
- Q-u yx 4-Wgtpg√.*Mylozkjvgtkmoyz-{khotgxut&/ugjy.

- [otjy. Włoiky ot znk [kyzkxt Ntjogt Sikgt = Xnk Qks uxgtjKkuvurozoiyulQgxozoskLkxozgmkčuxmgto∘kjh-Mijogt Gu|tiorul[uxnjEllgoxy*MoL[E+gtjMhjoxgKgtjnoRgzoutgr Gkt zxk luxG| rz| xgrExzy*M/RGE+8N| r. 42420
- Q-u yx 4 Wgt pg. Svkt at m Vks gxqy gz znk [khat gx ďWijogčy l–vgtjotm Luxo⊦uty=Eiz lgyz zu Miju/ Tgi doi čuxmgt o kj h · Eyogt Gut Ir kt i k. 3; S i zuhkx 42420
- Q-u yx 4Wgtpg√.ðrljogt Sikgt Wzxgzkmoilt'oxuts ktz ot 43 yz Gktz|x-čHomozgrPkiz|xk Wkxoky ut ôtvljogt Sikgt Wzxgzkmoilt'oxutsktz ot znk 43 yz Gktz|x-čuxmgto-kjh-Mijog/Elxoig Otu"rkj mk Jux|s.36E|m|yz42420
- Q-u yx 4 Wgtpg√ ðKkuvurozoiy ul Tgtjksoiy ot EtznxuvuiktkčXnk Tgtpgh Yto'kxyoz∙ Miyzoz|zk ul Wuiogr Wioktiklj|igzout gtj Vkykgxinč45N|r 42420
- Q-u yx 4Wgtpgy.ot'ozkj vgtkroyzzu Xnk Rk"Ruxs gr Wkxoky Hogrum k ZN4Vurk ul Q rzorgzkxgroys ot znk Rk" Ruxs grJxoj g . J NGGN/OE WZoz grHogrum ky. N t k 34.42420
- f 4 Rghgx t 0 & Rknx | & Xx yz "ozn Gnotg.č gz Eynuqg Yto'kxyoz∙. Wutkvgz Lgx-gtg. uxmgtoikj h- Eynuqg Wuiokz: lux Mtzkxtgzoutgr Ellgoxy *EWMZ+ *utrotk+ 52 Ru' ks hkx 42420
- f 4 Rghgx t 0 diylkgroys gtj Vkgroys at Mijogt Juxkomt Turoi · = Myormzy Ixus Xnkux gtj Txgizoik.čgz S 0T0 Notjgr Kruhgr Yto'kxyoz∙. Wutkvgz. Lgx-gtg. uxmgto-kjh- Notjgr Winuur ul Pohkxgr Exzy gtj L|s gtozoky *utrotk+ 47 Ru' ks hkx 42420
- h u 4 Hngt gt pg·. *m kyz rkiz | xk+. čVkmout gr Guuvkxqzout Miczogzók ot Mijogt Sikgt Vkmoutčlux Góor Wkx'gtzul Qgrjóky. gz Rgzoutgr Gktzxk lux Kuuj Ku'kxtgtik *RGKK+ Ntljoxg Fng" gt Ggs v | y. PFWRRE. Q | yyuuxdx. Mij og 08zn Jkhx | gx 42420
- j y u u xu 41/0čhtljogt Wexgzkmoi TxgizoikgtjznkVkz|xt ul Loyzux-čgz znkiutlkxktik ut Miyzoz|zoutgr Pkmgioky ot Ntlj ogšy Ntlzkxt gzout groyz Xnu mnz gtj Txgi zoik. 3; 3; /423; . uxmgtoykj h∙ Hkvgxzsktz ul Mizkxtgzoutgr Vkrgzouty. Eynuqg Yto'kxyoz∙.ot iumghuxgzout "ozn WSEW Yto'kxyoz∙ ul Put jut. Wut kvgz. Mrlj og. 53 Mgt | gx 42420
- g '-4Wh" kzg *ot' ozkj +ðtvl/hkz" kkt I v oyzks oi Xxgv y gtj Hoyi ov rat gx: åHoopzgzyĕ= Xn at qat m Jks at oyz Milzkxt gzout gr Vkrogzouty oj ollkxktzr-čot Wu∣zn Eyoogčogz znkiutlkxktik ut Vk' oyozot m Mtzkxt gzout gr Vkrgzout y = Gxozoi gr Vklrki zout y ut 322 · kgxy *3; 3; /4242+. Hkv gxzs kt z ul Mzkxt gzout gr Vkrgzout y. Ytókxyoz ul Hngqg. Hngqg. Fgt mgj kyn. Ngt | gx· 3; /42.42420
- g '-4Wh"kzg*xkyu|xikvkxyut+[uxqotmgzgtotyzoz|zout

- ot znk Kruhgr Wu|zn=Kktkxgr[uxqGutjozouty.Wkiutj Is kxmotm Kruhgr Wu∣zn [uxqynuv.uxmgtoykj h⋅ MWEŏy Gus s ozzkk ut znk Wzgzjy ulit mgmks ktz "ozn znk Kruhgr Wu | zn. N t k 44.4242 *ut rot k+
- **g '-4**Wh" kzq *ot' ozkj lqi | rz· + čGxozoi qr Tkxyv ki zoʻky ut Wki|xozo-gzout gtj Vkl|mkkyč gz znk Jxgs otmy gtj Hoyiu | xykyut Quhoroz∙gtj Gxoyoy—FrkyyotmyuxG|xykCWhuxz Gu|xyk ut Qomxgzout. Gktzxk lux Tu'kxz Etgryoy. Gurus hu. Wo Pgt qg. 25Ru' ks hkx/ 26 Hki ks hkx 4242 *utrotk+
- g '−4 Wh"kzg. ∛oth hkz"kkt lvoyzks oi Xxgvy gtj Hoyiovrotogx: Hoopzogzy=Xnotoqotm Jks otoyz Wki | xoz: yz| joky jollkxktzn ot Mijogč ot'ozkj vgvkx vxkyktzkj gz znk "khotgx [us kt gtj Tu"kx≔Kktjkx"oznot Mizkxtgzoutgr Vkrgzoutygtj Hovrusgi∙.uxmogtoykj h∙znk Ntjoogt Gu∣tior ul [uxnj Ellgoxy gtj Wu∣zn Eyoogt Yto'kxyoz∙. utnotk. Sizuhkx37.42420

du y d y y yx u x [yw y Ry y yx

- Pu 4Wu|s ozg. čXnk[n⋅gtj Lu"ulQ|rzo/yozkj Etgr-yoy ot Jks otoyz Myzoz zoutgroys čvxkyktzkj gzznk 'oxz gr "uxqynuv ut Evvr·otm Jks otoyz Mtyzoz zoutgroyz Evvxugi nkyzuznk W j·ul Mzkxt gzout grVkrgzout y. ut rot k. Wkvzks hkx33.42420
- Pu 4Wu| s ozg. 3547 gz 42=Xnk Vkyur | zout . S | x Txumxkyyč rkiz|xk jkrókxkj gy vgxz ul Tkgik gtj Kktjkx=E P∣tinzos k Pkiz∣xk Wkxoky. uxmogtoykj h Wogtyxozo gtj Txgpt · g. ut rot k. Wkvzks hkx4; .42420
- Pu 4Wu|s ozggtj Exuqogxgp N0 čTuv|royz Exzoi|rgzouty gz znk YR Wki∣xoz-Gu∣tion≔Kolvroigzoutylux Polkj Vkgrozokyot znk Kruhgr Wulznč vgvkx vxkyktzkj gzznk Qorkttols gtt | griut | kxktikut | tzgtm/ks ktzygtj | Hkzgins ktzyot Kruhgr Turozoiy. uxmgtoykj h∙ Qomktto∣s = Nu|xtgrul Mazkxt gzout grWz j oky. ut rot k. S i zuhkx44.42420
- P 4 Qkj ng. Rkz" uxqkj Ku'kxtgtik= *1 t +mktjkxotm "gzkx jovrus gi∙. Txkyktzkj ot *It+Kktjkxotm Xxqtyhu | t j qx· [qzkx Ku' kxtqtik Jks qtqyz Tkxyv ki zó ky [uxqynuv. Sxmgtoykj h⋅ Mil Hkrlzutrotk. Rkznkxrgtjy. Wkvzks hkx4; .42420
- **g '-4** Wh"kzg. oKktjkx Tkgik gtj Wki|xoz⋅=[n⋅znk iuttkizout s gzzkxyCčrkiz|xk jkrókxkj gyvgxz ul Tkgik gtj Kktjkx=E P∣tinzos k Pkiz|xk Wkxoky. uxmgtoykj h∙ Wgt yxozogt j Txgpt⋅g. ut rotk. Wkvzks hkx4: .42420
- h u 4Hngt gt pg. . aFuxj kxQ gt gmks kt zgt j Wki | xaz ot znk Tuyz/GSZNHI Wulzn Eyog ot znk otzkxtgzoutgr

- Gutlkxktik ut Vkos gmototmWu|zn Eyoog=Q|rzorgzkxgroys ot znk Tuyz /GS ZNH [uxrj . uxmgtoykj h⋅ Es oz∙ Ytókxyoz∙ *Strotk+52zn Wkvzks hkx42420
- h u 4 Hngt gt pg·. αTuyz/GS ZNH Wu zn Eyog gt j Tuyyohorozoky lux Wulzn Eyogt Mizkmxgzout. ot znk otzkxtgzoutgriutlkxktik Tuyz/Tgtjksoi[uxnj Sxjkx= Rg'omgzotmRk"Ruxsgr.uxmgtoykjh⋅RMSI.Rkvgr([gzkx Turoi · Gkt zxk. *S t rot k+52zn E| m| yz 42420 Foynz Q 0t Rk-| y Trgttotm lux Juuj Itkxm gtj It'oxutsktzgr Wki|xoz-č uxmgt oykj h. MIGR. Fgt mquq. Nj r. 44.42420
- **-y uwuxy wuw-yy y** *tuzlqmotm∣tjkx znkroyzkjigzkmuxoky+
- Pu 4 Wu|s ozg "gy ot'ozkj zu vxkyktz joyi|yygtz ius s ktzy ot &Wkyyout 4= YRWGV 3547-42 (znk_u|tm Kktkxgzoutčgz znk 4242 Ouxkg Kktjkx Iw| groz Jux|s. uxmgtoykjh znk Qotoyzx ul Kktjkx lw|groz gtj Jgsor. Vkv hroi ul Ouxkg. ut rot k. Wkvzks hkx5.42420
- Pu 4Wu s ozg vxkyktzkj gy vgxz ul g "khotgx ut X"ktz· _kgxy ul znk [us kt. Tkgik gtj Wki|xoz· Emktjg. uxmgt oykj h. Gngzngs Lu | yk. ut rot k. Wkvzks hkx43.42420
- Pu 4Wu|s ozqs gjkgvxkyktzgzoutgyvgxzulznk[uskt. Tkgik gtj Wki∣xoz 42zn Ettolkxygx Vu∣tjzghrk. uxmgtoykj h∙znk Hkvgxzsktzul [gx Wz|joky. Ootmčy Gurkmk Put j ut . ut rot k. Wkvzks hkx45.42420
- P 4 Qkj ng rg| tinkj l/[otzkx Winuur vgxztkxkj "ozn XVS WE.S] JEQ.YvvygrgYt o kxyoz. N r 3: .42420
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- f 4 Rghgx t0 W/hpkiz I-vkxz. M/lzkx'ok" vgtkrlux xkix|ozotmlgi|rz·s ks hkxy zu M/v xumxgs ul Ruxzn Igyz Gnxoyzogt Yto'kxyoz·*RIGY+Hos gv | x34 Q gxin.42420
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- h u 4Hngt gt pg·. v gt krjoyi | yyout ut oWEEVG ot Wu | zn Eyogğy Vkmout gr Mzkmxgzout. uxmgt oykj h. Rgzout gr Gumkmk Ogzns gtj|.*Strotk+38znE| m| yz4242
- **h u 4** Hngt gt pg · v gxzoi ov gzkj ot Vu|tj Xghrk

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h u – 4 Hngtgtpg.. vgxzoiovgzkj ot joyi|yyout ut oRkvgröy Ruxzn"kyzkxt Fuxjkx Hoyv|zk "ozn Miljog "Ogrgvgto Pov|rkqgtj Posvoigjn|xggtj Miljogöy Vkiktz Qu'k ul Svktotmul Vugj Xxgiq Xnxu|mm Hoyv|zkj Xkxxozux. Sxmgtoykj h Hkvgxzsktz ul Milzkxtgzoutgr Vkrgzouty gtj Hovrus gi . Xxohn|'gt Ytolkxyoz.. Ogznsgtj|. Rkvgr.*utrotk+33znQg-4242

h u – **4** Hngt gt p_0 : *Fuuq Vk' d_x " + Nut ky. Vkki k gt j E · s kgx Jkxj u| yn *423: + Fuxj kx gt j Quhora: d_x Wu| zn Eyog gt j Fk· ut j . Es yzkxj gs = Es yzkxj gs Yt d_y kxya: Txkyy. T| hraynkj d_x Nu| xt grul Fuxj kxrgt j Wz| j d_y dky. 4242. 57 *6+885/8870

h u - **4**Hngt gt pg· *Fuuq Vk' ok" +Gngzzkxpkk. Wholngynoy *423; + Mij og y Wygzogr Migmot gzout y ot Wu|zn Eyog=Tu" kx Gus s kxik.gt j Gus s | t oz·. Rk" Hkmo+S-luxj Yt oʻkxyoz· Txkyy.T|hroynkj ot Mizkxt gzout gr Wz|j oky. 4242.79 *5+544/546

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7	2703304242	Tuyz/Gu' oj Wu zn Eyogt Fuxj kxy	
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Qknjo Wkj Ikygx Vk' ok" ulLgvv·s ut Ngiuh. Xnk rotk ul Gutzxur=Xxg'kmotm" ozn znk Nfljogt gtj Tgqoyzgto Exsoky. ot Nu|xtgrul Fuxjkxrgtjy Wz|joky. 57. 5. HS N± 32032: 212::878770424203983:84

fy yu w-Ry' yy O u xyx

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Department of Sociology

Faculty of Social Sciences

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bu y zd ' u yHa Og w Pu w-H? 9? 9

Elmgt øyzgt	7	Qgrjóky	2
Fgt mrgj kyn	7	Rkvgr	3
Fn zgt	4	Tgqqyzgt	3
Nt/jog	37	WkoPgt qg	3
S znkxy	2		

bu y zd ' u yHa 6d- 7d-R g w ' Pu w-HO

Elmgt øyzgt	3	Qgrjóky	2
Fgt mrgj kyn	3	Rkvgr	2
Fn zgt	2	Tgqqyzgt	2
Nt/j og	5	WkoPgt qg	3
S znkxy	2		

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	bu y	d–R Ozz u . nyu	Ry'u	Oyuzgywuu 7Wyy
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	Vg' oO s gx	Ng"gngxrgr Rknx¦Ytókxyoz∙. Rk"HkmoNnjog. 4229	Eyyui ogzk Txulkyyux	Turozoigr Iiutus · ul Njiktzoz· Turozoiy. Wuiogr Xnkux . Turozoiy ul Otu"rkj mk Txuj izout. Wuiogr Qu'ks ktzy
8	Qgmodg Whgqg	Put jut Winuur ulliutus oiygtj Turozoigr Wioktik. *PW+Put jut. YO. 422:	Wkt oux Eyyoyzgt z Txulkyyux	liutus oiygtznxuvurum. Whuv Iruux kzntumxgvn·. Juxkomtgojgtjjk'kruvsktz. Pghu xgtjotj yzx- yz joky. Rgzoutgroys. huxjkxy. Tukzoiy
G	Etq∥xHgzzg	Putjut Winuur ulliutusoiygtj Turozoigr Wioktik *PWI+Putjut. YO. 4233	Wkt oux Eyyoyzgt z Txulkyyux	Ogyns ox Wz∥joky. Loyzux-gtj Qks ux Juxikj Qomogzout. Zourktik gtj Gutlroiz Wuiogr Etznxuv urum gtj Izntum vgv n-
	Hog Q knxg	Ytoʻkxyoz-ul Xk–gygzE yzot. YWE.4233	Eyy oy zgt z Txulkyyux	Yxhgt Etznxuvurum.Etznxuvurum gtj.Loyzux. Turozoiy.Ku'kxtgtikgtj Hk'kruvs ktz.Xnk Etznxuvurum ull'kx-jg-rolk
9	Gn j gs gt o Fgyt kz	Ytólkxyoz-ul Kkuxmog, Eznkty. YWE. 4232	Eyy o yzgt z Txulkyyux	Turozoiy. Iiutus ·. Vkromout. Loyzux
9	Hk' Rgzn Tgzngq	Ng"gngxrgr Rknx∤Ytókxyoz·. Rk"HkmoNn1jog. 4233	Wkt oux Eyyoyzgt z Txulkyyux	Jurqruxk (Tkxluxs gtik.Tuv rgxG rz xk (Qkjog *Gotks g.Q yoi.(Xnkgzxk+Xnkuxkzoigr(QkznujurumoigrMy) kyot Wuiogryioktiky?lvoyzksurum gtj Tnoruyuvn-ot WuiogrWioktik.lj igzout *Winuurotm(Xkginotm+_u zngtj Vkyoyzgtik
	Mig mgn Jgxuuwo	Ng"gngxrgr Rknx Ytókxyoz·. Rk"HkmoNn1jog. 4236	Eyy oy zgt z Txulkyyux	Wuiourum ulPozkxgz xkNymgs gtjQ ymosyotWu zn Eyog,Yxj Wz joky.Wu znEyogtWuiogrXnu mnz
	Mynozg Hk∙	Ytókxyoz ul Hkmol*Njog 4238	Eyy oyz gt z Txulkyyux	liutus oi Etznxuvurum . Juuj Wz∣joky. Juxikj Qomogzout. Pghu x Wz∣joky. Kktjkx (Wuiokz∙. Wioktik (Xkinturum of Wu∣zn Eyoog

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Hk' Rgzn Tgzngq. aTkxluxs gzók Xxgj ozout y ul Fgn | x | v o gy gtj Fngtjy ot iutzks vuxgx: Mijog. MQTVIWWVMGWWW Txupkiz Kxgtzh · MGWWW. Ntj og. NAV: 22. 222. lux z"u · kgxy *423: /43+0

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- Z u 4 fu 4 Eyyuiogzk Ijozux Wuiokz: gtj G|rz|xk ot Wu | zn Eyog *Wgmk+4237/4242
- **Z u 4f u 4**Gu/kj ozux ul ykxoky. Wui ogr Q u' ks kt zy gt j Xxgt yluxs gzó k Hoyykt z. Vu| zrkj mk. Rk" Hkmo 4237 zu j gzk
- Z u 4fu 4Qks hkx ljozuxogr Fugxj. Nu | xtgrul Gxozoigr lj∣igzoutTuroi·Wz∣joky
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amit ray & co.

CHARTERED ACCOUNTANTS

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Mobile : 9313829732

E-mail: allahabad@amitrayco.com

Website: www.amitrayco.com

Ret. No.

INDEPENDENT AUDITOR'S REPORT

To, The President South Asian University

Report on the Financial Statements

Opinion

We have audited the financial statements The South Asian University ("the university) which comprise the Balance Sheet as at December 31, 2019, the Statement of Income & Expenditure account and the Statement of Receipt & Payments for the year ended 31st December 2019, and a summary of significant accounting policies and other explanatory information in respect of its Consolidation of Operation Account and Capital Expenditure Account.

In our opinion and to the best of our information and according to the explanations given to us (based on the C&AG Report on Capital Expenditure Account), the accompanying financial statements of the University give a true and fair view.

- 1. In the case of Balance Sheet, of the financial position as at 31st December 2019.
- In the case of Income & expenditure, of the income and expenditure incurred during the year.
- 3. In the case of Receipt and Payments Accounts for the year ended on that date.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements. In making those risk assessments, the auditor considers internal control relevant to the preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

Report on Other Legal and Regulatory Requirements

Further we report that :



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Also at: BANGALORE • KOLKATA • MUMBAI • CHITTORGARH • PUNE • LUCKNOW

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- 1) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.
- In our opinion, proper books of account as required by law have been kept by the University so far as it appears from our examination of those books.
- 3) The financial statements give the information required by the governing law/ rules/ regulations in the manner so required and give fair view in conformity with the accounting policies, of the University:
 - a) In the case of Balance sheet, of the financial position as at 31st December 2019.
 - b) In the case of the Income & Expenditure account, of the income and expenditure incurred during the year ended.
 - c) In the case of Receipt and Payments Accounts for the year ended on that date.
- 4) The Balance Sheet, the Statement of Income & Expenditure and the Statement of Receipt and Payments dealt with by his Report are in agreement with the books of accounts.
- 5) In our opinion, the financial statements comply with the Accounting Standards generally accepted in India.
- 6) The University has, substantially and in all material respects, complied with the governing laws/ rules/ regulations while carrying its operations.
- The accounting policies adopted for the preparation of financial statements are consistent on a basis with that of the preceding financial year.

The Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position & financial performance of the University is in accordance with the Accounting Standards issued by Institute of Chartered Accountants of India.

This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Our responsibility is to express an opinion on these financial statements based on our sudit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India.

Continuation Sheet

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Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

Our responsibilities includes to identify the risks of material misstatements of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control; evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management and conclude on the appropriateness of management's use of the going concern basis.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

For Amit Ray & Co. Chartered Accountants

FRN: 000483C

Sandeep Chaudhary Partner

M. No.415858

Place: New Delhi Date: 28.12.2020

UDIN:21415858AAAAAC6023

Continuation Sheet

SOUTH ASIAN UNIVERSITY CONSOLIDATED BALANCE SHEET AS AT 31ST DECEMBER 2019

CORPUSICAPITAL FUND & LIABILITIES	Schedule	Current Year	Amount (Rs.) Previous Year
Corpus Fund	1	604,480,605	472,278,058
Capital Fund		7,529,053,245	5,389,221,658
General Fund		245,976,766	207,375,117
Earmarked /Endowment Fund	2	(37,408,739)	(38,143,315)
Current Liabilities	3	1,947,253,954	. 2,197,841,153
* TOTAL		10,289,355,831	8,228,572,671
ASSETS			** H-10-10
Fixed Assets Gross Block	4	7,845,878,940	5,683,348,605
Less: Depreciation till date		316,825,695	294,126,947
Net Assets		7,529,053,245	5,389,221,658
Current Assets	5	2,760,302,586	2,839,351,013
*			
TOTAL	+	10,289,355,831	8,228,572,671
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For Amit Ray & Co., Chartered Accountable

Accounts

Significant Accounting Policies and Notes on

CA Sandeep Chandhary Partner

Membership Number: 415858 Firm No. 000483C Place: New Delhi Date: 28.12.2020 For South Asian University

CA Keshav Datt (Director Finance)

Prof. Ranjan K. Mohanty (Acting President)



*Audited by SAU Statutory Auditor

SOUTH ASIAN UNIVERSITY CONSOLIDATED

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST DECEMBER 2019

INCOME		Se	chedule	Current Year	(Amount - Rs.) Previous Year
Contribution from Member States				943,247,194	826,113,475
Capital Fund Transferred (to the exte	nt of Depreciation)		4	24,513,079	26,859,812
Academic Receipts			6	37,712,170	34,212,912
Other Income			7	1,710,704	514,341
	y 20	TOTAL	=	1,007,183,147	887,700,540
EXPENDITURE Establishment Expenses			8	442,454,932	352,805,399
Other Administrative Expenses etc.			9	409,230,341	394,688,075
Academic Expenses . **			10	92,383,146	78,718,660
Depreciation: During the Year		TOTAL	4	24,513,079 968,581,498	26,859,812 853,071,946
Balance being surplus carried forward	to General Fund			38,601,649	34,628,594
Significant Accounting Policies and N	otes on Accounts		11		

For Amit Ray & Co

Partner

Membership Number: 415858

Firm No. 000483C Place : New Delhi Date: 28.12.2020

For South Asian University

(Director Finance)

(Acting President)



*Audited by SAU Statutory Auditor

SOUTH ASIAN UNIVERSITY CONSOLIDATED RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31ST DECEMBER 2018

	L	RECEPTS	Current Year	Previous Year			PAYMENTS	Current Year	Previous Year
Ė	t	Opening Balances			L		Expenses		
Т	(4)	Cash in hand	741,752	810,935		#0	Existifatywerk Expenses	301,138,637	314,004,82
Ŧ	8	Bank Balances				100	Administrative Expenses	70,016,379	107,196,75
T	Т	L in Current & savings accounts	75,713,173	109,313,764		40	Academic Espenses	90,224,757	21,010,17
Ŧ	П	II. In depesit scoounts	1,161,543,545	1,192,619,671	IL.		Expenditure on Fixed Assets		
Œ	Е	Contributions Received				10	Purchase of Food Assets	16,558,586	13,037,10
		Operational Contribution from SAARC Member States	2,466,900,000	3.162,853,419		b)	Expenditure on Capital Work in Progress	609,975,771	1,819,453,78
٨.		interest (Received	The same of		III.		Other Payments		
Т	[8]	On Bank deposits	50,996,538	95,301,023		40	Advance to Stoff / students	5,404,324	28,368.80
V.	Г	Academic Receipts				bj	Advance to Service Provider) Vendors/CWI Contractors	1,651,171,330	832,797,63
Е	(0)	Fees From SAU Students	24,237,665	28,619,621	-	45	Returns of Security deposits /EMDs	3,410,953	2,112.20
1		Other Heceipts	1.5			8	Temporary Intertrement Transactions	87,350,731	1,129,309,87
T	0)	Other Corpus fund Receipts	4,932,043	5,988,246		+)	Deposit of Security with Government/CPWO	936,354	2,088,70
T	to	Security Deposit from Stytlents	111111	31,500		10	VAT / GST	144,880,443	4,901,86
T	+	Security Deposit from Vendors	1,798,291	60,038		100	Cabilities (swards service provider/ vendor poid	16,205,615	30,102,57
T	10)	Earnest Deposit from Vencors	3,574,090	1,621,909		mp	Amount for common services pold on befrall of MOIA	9,850,729	6,110,41
	*	SAARC Silver Jubileo Scholarship GOI	11,655,431	57,000		10	Liabilities rowards staff and students poid		44,621,90
	q	Hanacoch & Development project sycalpia	34,250,577	27,007,981		p	Research & Devotopment project payments	24,787,167	17,587,45
	lat.	Other Mise Societs	554,307	818,025		10	Refund of students security disposit/Fee	1,078,349	6,620,35
Е	(h)	Other Misc Deposits (student aid fund)	124,764	+		10.	SAARC Silver Jubilion Scholarship	12,427,402	14,807,21
Г	17	Temporary Interferench Transactions	85,977,606	861,340,539		mi	Investments in Mutual Fund	110,000,000	100,000,00
Г	11.	Advance from staff / students recovered	14	9,979,215		nþ	Propekt Expenses	000,167	1,470,10
	N)	Amount for common services recovered- MIDIA	5,776,372	3,562,456		4)	Payment of Labour Cess	29,741,247	26,317,26
	0	Sole of assists	47,641	222,851	tv.		Closing Balances	-	
		Mutual fund Receipt	368,272,855	-		10)		114,762	741,75
	4004	GST Refund Received	286,366,013			10	A CONTRACTOR OF THE CONTRACTOR	+	-
		Refund of Deposits from CPWD	575,428	The second			In trurent & savings accounts	200,650,966	75,713,17
	00	VAT Rafund from Delhi Government	7,102,967	59,433,324			ii. In deposit accurrin.	1,106,062,533	1,161,543,54
		TOTAL	4,801,751,785	8,559,556,778				4,581,751,756	5,559,566,770

Membership Number: 410000 Total ACC Firm No. 000483C Floor: New Dehit Date: 28.12.2020

CA Koubay Datt (Director Finance)

*Audited by SAU Statutory Auditor

Members of Governing Board

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40	Pu'uxy –	R 6Zu g-u-x u- P w w Ytókxyoz Kxgtzy Gus s oyyout *YKG+ Fgt mgj kyn a 6a x6g-u Vu y R ™y U™ ™w /hNNgP - ONb hi SPO Q ot oyzx ul Juxkont Ellgoxy Hngqg. Fgt mgj kyn	
50	P- u	a 6f w-y Z y R ™y Hkvgxzs ktzul WEEVG (Vkmout grSxmgto-gzouty. Qotoyzx ul Juxkomt Ellgoxy Xnos vn .Fn zgt a 6Zy u ' Q- xy R R ™y U™ ™w Hkvgxzs ktzul Ej rzgtj Lomnkxlj i gzout Qotoyzx ul l j i gzout Vu·grKu'kxts ktzul Fn zgt Xnos vn .Fn zgt	
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70	aux y	R 6a – u yxg–uyyz ky™P wy™ Xnk Qgrjóky Rgzout grYtókxyoz- Qgrk. Vkv hroi ul Qgrjóky R 6W u– Vu u Qotoyzkxul LomnkxIj igzout Qotoyzx ul LomnkxIj igzout QgrkčVkv hroi ul Qgrjóky	
80	by u	d z6P- duux g vyx Pww Yto'kxyoz-KxgtzGussoyyout.Rkvgr a 6fu duux g vyx Yh™y™wwzV™wz™ g™wdwwR3 Qotoyzx-ulJuxkomtEllgoxy Ku'kxtsktzulRkvgr.Ogznsgtj .Rkvgr	
	du u	Richu Pu Pww LommkxIj igzout Gussoyyout Nymrgsghgj. Tgqoyzgt Richa – u ux Tu u R™y U™™w/hN-hNNgPO Qotoyzx-ulJuxkomtEllgoxy. Nymrgsghgj. Tgqoyzgt	" 0k0 46 03 0423;
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320	g – Ou i y	d z6f6Z6a –u e™z™ /d 508 Wu zn Eyoogt Yto'kxyoo∵.Rk" Hkmo	" 0 k003302904242
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Members of Executive Council

30	d z6f 6Z6a - u Txkyoj kt z*S IIm0+WEY / Gngox/kxyut	" 0x0 03302904242
	R 6Ojgfu y – Q–uxu Txkyojktz*S llmOk-WEY	vzu 33@9@12424
40	Zoik Txkyoj kt z	
50	d z6gu u Q-u yx Gngowkxyut.Pohxgx Ej'oyux Gussozzkk	" 0x0 028 0 2: 0 4242
	d z6fu u Z u a – u Gngox/kxyut.Pohxgx-Ej'oyux-Gus s ozzkk	vzu 2702: 04242
60	d z6Ryy ug –u Hkgt ul Wz j kt zy. WEY	" 0 k 0 023 0 2: 0 4242
	d z6g Z u Hkgt ul Wz j kt zy. WEY	vzu 5302904242
70	d z6gu u Q-u yx Hkgt.JWWWEY	
80	d z6gy – Z6jy ' u Hkgt.JPWF/WEY	
90	d z6d u uv Z6a – Hkgt . J Q GW	
: 0	d z6g Z u Hkgt . JI /WEY	" 0x0 02302: 04242
	d z6O a u Hkgt .JI /WEY	vzu 5302904242
; 0	R 6f u x ud u u Eyyui ogzk Hkgt . J PWWEY	
320	R 606Z6a u Vkmyzxgx WEY (Rut /' uzdi mQ ks hkx Wki xkzgx	
330	a 6Zy – u Ru Hoxki zux/Jot gt i k. WEY Rut /Zuzot mQks hkx	

Members of Academic Council

30	1 200	# 4.4022@0@242
30	d z6f 6Z.6a −u Txkyojktz*SIImOt:WEY/Gngoxvkxyut	" 0x003302904242
	R 60j gfu y - Q-u x u Txkyoj kt z*S IIm0+WEY	vzu 33029042424
40	Zoik Txkyoj kt z. WEY	
50	d z6gu u Q-u yx Hkgt.JWWWEY	
60	d z6gy – Z6jy ' u Hkgt.JPWF/WEY	
70	d z6d u uv Z6a – 4 Hkgt.JQGWWEY	
80	d z6g Z u Hkgt.JI/WEY	" 0k0 023 0 2: 0 4242
	d z6O a u Hkgt.JI/WEY	vzu 5302904242
90	R 6f u x ud u u Eyyui ogzk Hkgt . J PWWEY	
: 0	d zógu u Q-u yx Gngox/kxyut.Pohxgx-Ej'oyux-Gus s ozzkk	" (k.0 028 0 2: 0 4242
	d z6fu u Z u a – u Gngox/kxyut.Pohxgx-Ej'oyux-Gus s ozzkk	vzu 2702: 04242
; 0	d z6Ryy ug –u Hkgt ul Wz j ktzy. WEY	" 0k002302: 04242
	d z6g Z u Hkgt ul Wz∥j ktzy. WEY	vzu 5302904242
320	d z6fu u Z u a – u Gngox/kxyut. Hkvz0ul Qgznks gzoiy. JQGWWEY	" 0k003302704242
	d z6Zu Z u g–u u4 Gngox/kxyut. Hkvz0ul Qgznks gzoiy. JQGWWEY	vzu 3202704242
330	di z6gu u udyyu Gngoxykxyut. Hkvgxzs ktzul Wuiourum. JWWWEY	" 0k0 028 0 25 0 4242
340	d z6b x R Zoik Gngtikmux Vu-grYto'kxyoz-ul Fn zgt. Xnos vn . Fn zgt	vzu 5202: 04242
350	R 60 Tu u g-u yyz Juxs kxZoʻk Gngtikmux. Qgrjóky RgzoutgrYtókxyoz·. QgrkčQgrjóky	vzu 5202: 04242
360	d z6O – u[u – u fu u '-y Txulkyyuxul liutus oʻy gtj Hkgt Jgi rz·ul Exzy. Ytoʻkxyoz·ul Gurus hu. Gurus hu. WooPgt qg	vzu 5202: 04242
370	R 606Z6a u g^{TM} w (Rut /' uzat mQ ks hkxWki xkzgx-	

Members of The Finance Committee

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30 d z6f 6Z6a - u
       Ny e^{\mathsf{TM}} z^{\mathsf{TM}} 3P w^{\mathsf{TM}} /S 4 y 0
       Wu∣zn Eyogt Yto'kxyoz∙
       Rk" Hkmo
40 d z6gy – Z6jy ' u
       Ny k y^{\mathsf{TM}} e^{\mathsf{TM}} z^{\mathsf{TM}} b^{\mathsf{TM}} x^{\mathsf{TM}} / S 4 y 0
       Wu∣zn Eyoogt Yto'kxyoz∙
       Rk" Hkmo
50 c y yy z -y U y ' P u x 0f y: D6 6A1
       n^{\text{TM}} \quad x^{\text{TM}} \quad w^{\text{TM}} z b^{\text{TM}} x^{\text{TM}}
60 d z6a – ux fy u Tu u
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