

@ML<?J@>: X<sup>a</sup>  
Až \_kl bl \_ev ^bj \_dl hj Z  
i h nq\_ [ gh f \_l h^bq\_kdhc j ž hl \_  
\_\_\_\_\_ > : F žž ž h\Z  
©BBB<sup>a</sup> BBBBBBBBBBB ]

J: ; HQ: Y I JH=J: F F : MQ?; GHC >BKPBI EBGU

H=KW 5 NBABQ?KD: Y DMEVLMJ:

Ki \_pbZevghkl v 54.02.01. >bažcg i h hl j Zkeyf  
D\ Zebnbdžpby \ u i nkdgbdZ ^bažcg\_j

F ZožqdZeZ ±2023

Hkgh\gZy ijhn\_kkbhgZevgZy h[jZah\ZI\_ evgZy ijh]j  
hkgh\\_ N\_^\_jZevgh]h ]hkm^Zjkl\\_ggh]h h[jZah\ZI\_ evgZy ijh]j  
ih ki\_pbZevghklb kj\_^g\_]h ijhn\_kkbhgZevgh]h h[jZah\ZI\_ evgZy ijh]j  
hljZkeyf ml\\_j`^\_ggh]h h[jZah\ZI\_ evgZy ijh]j  
ghy[jy ]h^Z j\_^ hl \oh^ys\_c \ khkIZ\  
ki\_pbZevghkl\_c Bah[jZabl\_evgh\_ b ijbdeZ^gu\_ \b

J:KKFHLJ?GH

gZ aZk\_^Zgbb l\_^Z]h]b qH QM]©=ID^ID e < 29.08.2023  
]

JZajZ[h:l=q=ZifaZA\Z ij\_ih^Z\ZQM e≠IDH

J\_p\_ga\_glu

;mllZ\\_ FkZkZ^h\bq dZhg^ab^Zl\_fZl bq\_kdbogZmd IHQI  
©=ID<sup>a</sup>

>`Zo[Zjh\Z AZ]jZl FZ]hf\_^Zeb\_\gZ d[phgeh]bhp\_gl d  
wdheh]bb b f\_lh^bdb ij\_ih^Z\Zgby nZdmevl\_IZ [bheh  
>=IM

KH>?J@:GB?

1. I:KIHJL J::HQ?C IJH=J:FFU MQ?  
>BKPBIEBGU
2. KLJMDLMJ: B KH>?J@:GB? M  
>BKPBIEBGU
3. MKEH<BY J?:EBA:PBB MQ?;GHC >BKPB
4. DHGLJHEV B HP?GD: J?AMEVL:LH<  
MQ?;GHC >BKPBIEBGU
5. :>:IL:PB Y J::HQ?C IJH=J:FFU IJB H;MQ  
EBP K H=J:GBQ?GGUFB <HAFH@C  
A>HJH<VY
6. EBKL I?J?ML<?J@>?GBY :DLM:E  
J::HQ?C IJH=J:FFU >BKPBIEBGU

I:KIHJL J:;HQ?C IJH=J:FFU MQ?;GHC ~~E B & BBI~~  
H=KW Nbabq\_kdZy dmevlmjZ

1.1. H[eZklv ijbf\_g\_gby ijh]jZffu

ijh]jZffZ mq\_[ghc ^b~~kp~~ ~~W~~ Nbabq\_kdZy dmevlmjZ<sup>a</sup>  
qZklv~~hkgh~~\ghc ijhn\_kkbhgZevghc h[jZah\ZI~~ke~~hgh~~h~~cl~~klj~~h]jZ<sup>a</sup>  
N=H~~KIH~~ ih ki\_pbZ~~54.020~~l~~ba~~Zcg ih hljZkeyf

F\_klh mq\_[ghc ^b~~kp~~biebgu \ kljmdlmj\_ hkgh\gh  
h[jZah\ZI\_evghc ijh]jZffu

- <HIHIKI H mq\_[~~g~~ky~~biebg~~Z.05 ~~W~~ Nbabq\_kdZy dmevlmjZ<sup>a</sup>  
h[sbc ]mfZgblZjguc b~~v~~kl~~h~~Z~~ev~~gdbc pbde

P\_eb b aZ^Zqb mq\_[ghc ~~l~~^~~b~~kl~~p~~Z~~ig~~byud j\_amevlZ<sup>a</sup>  
hk\h\_gby ^b~~kp~~biebgu

- bkihevah\Zlv nba~~dra~~ev]m]jgh\_e^~~g~~mi~~x~~evghklm~~d~~^~~ei~~ye\_gby  
a^hjh\vy ^hkl~~b~~a~~g~~byguo b ijhn\_kkbhgZevguo p\_e\_c

< j\_amevlZI\_ hk\h\_gby mq\_[ghc ^b~~kp~~biebgu h[mqZ:  
\eZ^\_lv ke\_^mxsfbf h[sfbf dhfi\_l\_gpbyfb ^Ze\_\_ HD

HD Bkihevah\Zlv kj\_^kl\Z nbabq\_kdhc dmevlmjju ^ey  
mdj\_ie\_gby a^hjh\vy~~kk~~\_ijhn~~j~~h~~kk~~bhgZevghc ^\_yl\_evgh  
ih^^\_j`Zgby g\_h[oh^bfh]h mjh\gy nbabq\_kdhc ih^]h]h

1.3.1. P\_e~~v~~ieZg~~bjm~~\_f~~u~~amevlZ<sup>a</sup>kuh\_g~~by~~kp~~biebgu~~

<jZfdZ~~ok~~\h\_g~~by~~]jZffumq\_[g~~h~~^~~b~~kp~~biebgu~~h]mqZxs~~b~~cky  
ijbh[j\_lZ~~m~~f\_g~~by~~gZgby

nhjfbjm_f <sup>a</sup> HD	Mf_gby	AgZgby
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<p>HD</p>	<p>- bkihevah\Zlv^kl\Zbabq_kdmævlm]eykhojZg_@by  ha^hjh\bl_evngx ^_yl_ev  mdj_ie_@hjh\vy \ ijhp_kk_ ijhn_kkylh_gZevghklb  `bag_ggüjhn_kkbhgZpveü  - ijbfgylv jZpbhgZevgu_  ^\b]Zl_evguo nmgdpbc \  ijhn_kkbhgZevgh_evgghklb  - ihevah\Zlvky kj_^kl\Z  ijhnbeZdlbdb i_j_gZijy`-g  oZjZdl_jgufb ^ey ^Zggh  ki_pbZevghklb  - \uihegybhgljhevghjZlb\  ij_^mkfhlj_ggu]hkm^Zjkl\  klZg^Zjlfj b khh\l_kl\m  lj_gbjh\d_k mq_lhfkklhy  a^hjh\vy b nmgdpbhgZ  \hafh`ghkl\rc_hj]ZgbafZ</p>	<p>- jhev nbabq_kdhc dmev  h[s_dmevlmjghf ijhn_k  bkhpZevgZabfbqbeh\_dZ  - hkgha^hjh\h]hZaZagb  - mkeh\byijhn_kkbhgZ  ^_yl_evghklb ahgu jbkd  nbabq_kdh]hjh\vy^Zggh  ki_pbZevghklb  - ijZ\beZ b kihkh[u ieZg  kkl_fu bg^b\b^mZevgu  nbabq_kdbfb mijZ`g_gb  jZaebqgZcjZ\ev_gghklb</p>
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HD Bkihevah\Zlv^kl\Zbabq\_kdmævlm]eykhojZg\_@by  
mdj\_ie\_@hjh\vy \ ijhp\_kk\_ ijhn\_kkylh\_gZevghklb  
g\_h[oh^bfh]h mjha bgy\_kdh]hjh\ev\_gghklb

1. Ebqghklgu\_ j\_amevlZlu j\_ZebaZpbb ijh]jZffu \hkiblZgb

EJ HkhagZxsbc k\_[y ]jZ`^Zgbghf b aZsblgbdhf \\_eb  
EJ Ijhy\eyxsbc Zdlb\gmx ]jZ`^Zgkd mfxhg khjbj mxsbc  
ijb\\_j`\_gghklv ijbgpbiZf q\_klghklb ihjy^hqghklb hldju  
Zdlb\guc b mqZkl\mxsbc \klm^\_gq\_kdhf b l\_jjblhjbZevg  
qbke\_ gZ mkeh\byo ^h[jh\hevq\_kl\Z ijh^mdlb\gh \  
mqZkl\mxsbc \ghklb eh[s\_kl\\_gguo hj]ZgbaZpbc

EJ Kh[ex^Zxsbc ghjfu ijZ\hihja^dZ ke\_^mxsbc b^  
h[s\_kl\Z h[\_ki\_q\_gby [\_ahiZkghklb ijZ\ b k\h[h^ ]jZ`^  
mklZgh\dZf b ijhy\ev\_gbyf ij\_^klZ\bl\_e\_c km[dmevlmj h  
^\_kljmdlb\guf b ^\\_bZglguf ih\\_^\_gb\_f >\_fhgkljbjmx  
ij\_^mij`^Zxsbc khpbZevgh hiZkgh\_ ih\\_^\_gb\_ hdjm`Zxs

EJ Ijhy\eyxsbc b ^\_fhgkljbjmxsbc m\Z`\_gb\_ d ex^yt  
p\_gghklv kh[kl\\_ggh]h ljm^Z Klj\_fysbcky d\hchjkbj\Z  
ebqghklgh b ijhn\_kkbhgZevgh]h dhgkljmdlb\gh]h ©pbnjh

2. Ebqghklgu\_ j\_amevlZlu j\_ZebaZpbb ijh]jZffu  
hij\_^\_e\_ggu\_ hljZke\_\ufb lj\_[h\Zgbyfb d ^\_eh\uf dZq\_

EJ Kh[ex^Zxsbc \ k\h\_c ijhn\_kkbhg Zewgllbc\_A dy  
 ijbgbpiu q\_klghklb g\_aZ\bkbfbklb ijhn\_kkbhgZev  
 ijhlb\h^\_ckl\by dhjjmipbb b wdklj\_fbafm h[eZ^Zxsbc kb  
 mf\_gb\_f ijbgbfZlv j\_r\_gb\_ \ mkeh\byo jbkdZ b g\_hij\_^\_e  
 EJ =hlh\uc khhl\\_lkl\h\Zlv jZ[hb^h^Zgbyf\_c ijh\_d  
 fukeysbc wnn\_dlb\gh \aZbfh^\_ckl\mxsbc k qe\_gZfb dhfz  
 k ^jm]bfb ex^vfb hkhagZggh \uihegyxsbc ijhn\_kkbh  
 hl\\_lkl\\_gguc imgdlmZevguc ^bkpbiebgbjh\Zgguc ljm  
 fukeysbc gZgguc gZ ^hklb`\_gb\_ ihklZ\e\_gguo p\_e\_c  
 ijhn\_kkbhgZevgm x `bag\_klhcdhklv  
 EJ Hldjuluc d l\_dmsbf b i\_jki\_dlb\guf baf\_g\_gby  
 ijhn\_kkbc

3. Ebqghklgu\_ j\_amevlZlu j\_ZebaZpbb ijh]jZffu  
 hij\_^\_e\_ggu\_ km[t\_dlh hclnk\_k^c]Zpbb

EJ KhojZgyxsbc gZpbb bagZevgm x b^\_glbqghklv \  
 ihebmevlmjgh]h h[jZah\ZI\_evgh]h ijhp\_kkZ

4. Ebqghklgu\_ j\_amevlZlu j\_ZebaZpbb ijh]jZffu  
 hij\_^\_e\_ggu\_ ljbagZxsbc p\_ggghklv dZ`^h]h q\_eh\  
 j\_ZebaZpbx k\hbo kihkh[ghkl\_c gZ ^hklhcguc\_ mkeh\  
 k\h[h^guc \u[hj `bag\_gghc ihabpbb

EJ >\_fhgklbjmxsbc m\Z`\_gb\_ b ^h[jh`\_eZI\_evgh\_ h  
 ex^yf b m\Z`Zxsbc m[\_`^\_gby k\hbo deb\_glh\ bo p\_g  
 gm`^u ij\_^ihql\_gby \aZbfhhlg hr\_gby b k\yab k ^jm]bfb

Dhebg\_kl\h qZkh\ gZ hk\hij]jZffuZ[mq\_dghc  
 ^bkpbiebguc ©Nbabq\_kdZy dmevlmjZ^a khklZ\ey\_l

FZdkbfZevghc mq\_[ghc gZ]j160 dZkklm^lhfllZqbke\_  
 h[yaZI\_e gZ]hjmadb klm^l\agZbfh^\_ckl\bb k ij\_158^ZZZ\_e  
 - qZkZ l\_hj\_lbq\_kdb\_ aZgylby yjZd hqZ\_kdhgljba  
 aZq(3456 ^bn A8Zkq\_fl\_klj

KLJMDLMJ: B KH>?J@:GB? MQ?;GHC >BKPBIE

H[t\_f mq\_[ghc ^bkpbiebguc b \b^u mq\_[ghc jZ[hlu

<b^ mq_[ghc jZ[hlu	H[t_f	JZkij_^_e_gb_k_f_kljZf
--------------------	-------	------------------------

	qZkl						
FZdkbfZevgZy mq_[gZy\kg_Z]]	160	3	4	5	6	7	8
H[yaZI_evgZy mq_[gZy \b \aZbfh^_ckl\p_bik^Z\ZI_e_f	160	30	28	26	28	30	18
\ lhf qbken_hjf_ ijZdlbq_ k ih^]hIh\ d							
L_hj_lbq_kdb_ aZgylby	2						
ijZdlbq_kdb_ aZgylby	158	30	28	26	28	30	18
dhgljhevgu_ jZ[hlu							
l jhf_`mlhqgZy ZII_klZpby \ n aZq_IZ blh]h\Zy ZII_klZpby \ \b ^bnn_j_gpbjh\Zggh]h aZq_IZ		aZ q_ l	aZ q_ l	aZ q_ l	aZ q_ l	aZ q_ l	>b n aZ q_ l

2.2. L\_fZl bq\_kdbc ieZg b kh^\_j`Zgb\_mq\_[gh]h eZl[hj]ZaZgu\_jZ = KMbabq\_kdZy dmevlmjZ<sup>a</sup>

GZbf_gh\Zgb_jZ b l_f	Kh^_j`Zgb_mq_[gh]h eZl[hj]ZaZgu_jZ b ijZdlbq_kdb_aZgylby kZfhklhyl_ klm^_glh\ ijh_dl	H[t_f qZkh	Dh^u dhfi_l_gpbc nhjfbjh\Zgb dhlhjuo kihkh[kl\m_ we_f_gl ijh]jZffu
1	k_f_klj qZkh\	5	6
<\_^_gb_	Kh^_j`Zgb_	2	HD HD
	E_dpbygkljmdlZl`_bghbd_ [_ahizkghklb ljm^Z gZ aZgylbyo e_]dhc Zle_lbdhc	2	
L_fZ. E_]dZy Zle	ljZdlbq_kdh_aZgylb_	5	HD HD
	1. JZa\bib_ \ughkeb\hklb	1	08
	2. JZa\bib_ dhhj^bgZpbb kbeh\uo dZ	2	
	3. H[mq_gb_ ki_pbZevguf e Zle_lbq_	2	
	KZfhklhyl_ evgZy jZ[hIZ		
L_fZ H[sZy nbabq_kdZy ih^]	ljZdlbq_kdh_aZgylb_	10	HD HD
	1. JZa\bib_ kbeh\uo dZq_kl\	1	
	2. JZa\bib_ kdhhj^bgZpbb kbeh\uo dZq_kl\	1	
	3. JZa\bib_ dhhj^bgZpbb	2	
	4. JZa\bib_ kbeh\uo dZq_kl\ ]b[dhkl	2	
	5. JZa\bib_ kdhhj^bgZpbb kbeh\uo dZq_kl\	2	
	6. JZa\bib_ kbeh\uo dZq_kl\ f_lh^hf	2	



		lj_gbjh\db		
		KZfhklhyl_evgy jZ[hIZ		
L_fZ ;Zkd_l[he		ljZdlbq_kdh_ aZgylb_	13	HD HD
	1.	L_ogbdZ [_ahiZkghklb ljZ\beZ b]	2	08
	2.	Bamq_gb_ l_ogbdb i_j_^`b`_gby \	2	
	3.	JZa\blb_ dhhj^bgZpb-k b k d h j b k d g l q [Zkd_l[he_	3	
	4.	Bamq_gb_ l_ogbdb i_j[Z^kZdq b [hyeqZ	3	
	5.	Bamq_gb_ lZdlbdb gZiZ^_gby \ b]	3	
		k_f_klj qZkh\		
L_fZ GZklhevgh l_ggbk		ljZdlbq_kdh_ aZgylb_	10	HD HD
	1.	L_ogbdZ [_ahiZkghklb ljZ\beZ b]	1	08
	2.	Hkgh\gZy klhZkZhevghf l_ggbk_	1	
	3.	Kihkh[u o\ZIZ jZd_ldb b \b^u m^Z	1	
	4.	L_ogbdZ gZklhevgh]h l_ggbkZ Hk	1	
	5.	L_ogbdZ i_j_^`b`_gby \ gZklhevgh	2	
	6.	L_ogbdZ dmxsbo b h[hjhgb_l_evguo	2	
	7.	LZdlbdZ bgZklhevghf l_ggbk_	2	
		KZfhklhyl_evgy jZ[hIZ		
L_fZ Nml[he		ljZdlbq_kdh_ aZgylb_	10	HD HD
	1.	L_ogbdZ [_ahiZkghklb gZ aZgylby	1	08
	2.	JZa\blb_ kdhhj b k h g b o dZq_kl\	1	
	3.	L_ogbdZ kdZy ih^]hlh\dZ	2	
	4.	<_^_gb_ fyqZ	2	
	5.	HklZgh\dZ fyqZ	2	

	6.	JZa\b b_ ]b[dhklb	2		
		KZfhk hyl_ evgZy jZ[h Z			
L_fZ <he_c[he		ljZdlbq_kdh_ aZgylb_	8	HD	HD
	1.	L_ogbdZ [_ahiZkghklb gZ aZgylby ljZ\beZ b]ju	1		08
	2.	Hkgh\gZy k l he_c_dZ hebklZ L_ogbdZ ih iehsZ^d_	1		
	3.	L_ogbdZ i_j_^Zqb fyqZ k\_jom b k	1		
	4.	JZa\b b_ kd h b e hg u o dZq_kl\	1		
	5.	L_ogbdZ ih^Zqb fyqZ k\_jom	2		
	6.	L_ogbdZ gZiZ^Zxs_]h m^ZjZ \ \he	1		
	7.	L_ogbdZ dbjh\Zgby \ \he_c[he_	1		
		k_f_klj qZkh			
L_fZ E_]dZy Z		ljZdlbq_kdh_ aZgylb_	6	HD	HD
	1.	BgkljmdlZ` ih l_ogbd_ [_ahiZkghk gZaZgylbyo e_]dhc Zle_lbdhc	2		08
	2.	JZa\b b_ \ughkeb\hklb	1		
	3.	JZa\b b_ dhhj^bgZpbb kbeh\uo dZ	2		
	4.	H[mq_gb_ ki_pbZevguf e Zle_lbq_	1		
		KZfhk hyl_ evgZy jZ[h Z			
L_fZ H[sZy nbabq_kdZy ih^]		ljZdlbq_kdh_ aZgylb_	10	HD	HD
	1.	JZa\b b_ kbeh\uo dZq_kl\	2		08
	2.	JZa\b b_ kd h b e hg u o dZq_kl\	2		
	3.	JZa\b b_ dhhj^bgZpbb	2		
	4.	JZa\b b_ kbeh\uo dZq_kl\ ]b[dhkl	2		

	5.	JZa\bib_ kbeh\uo dZq_kl\ f_lh^hf lj_gbjh\db	2	
	KZfhklhyl_evgy jZ[hIZ			
L_fZ ;Zkd_l[he		ljZdlbq_kdh_ aZgyib_	10	HD HD
	1.	L_ogbdZ [_ahizkghklb ljZ\bez b]	2	08
	2.	Bamq_gb_ l_ogbdb i_j_^`b`_gby \	2	
	3.	JZa\bib_ dhhj^kgh\uo dZq_kl\ f_lh^hf [Zkd_l[he_	2	
	4.	Bamq_gb_ l_ogbdb i_j_^Zqb fyqZ	2	
	5.	Bamq_gb_ lZdlbdb gZiZ^_gby \ b]	2	
	KZfhklhyl_evgy jZ[hIZ			
	k_f_klj q			
L_fZ GZklhev l_ggbk		ljZdlbq_kdh_ aZgyib_	10	HD HD HD
	1.	L_ogbdZ [_ahizkghklb ljZ\bez b]	1	08
	2.	Hkgh\gZy klhcdZ \ gZklhevghf l_g	1	
	3.	Kihkh[u o\ZIZ jZd_ldb b \b^u m^Z	1	
	4.	L_ogbdZ gZklhevgh]h l_ggbkZ Hk	1	
	5.	L_ogbdZ i_j_^`b`_gby \ gZklhevgh	2	
	6.	L_ogbdZ dmxsbo b h[hjhgb_l_evguo	2	
	7.	LZdlbdZ b]ju \ gZklhevghf l_ggbk	2	
	KZfhklhyl_evgy jZ[hIZ			
L_fZ Nml[he		ljZdlbq_kdh_ aZgyib_	10	HD H,HD
	1.	L_ogbdZ [_ahizkghklb gZ aZgyiby	1	08
	2.	JZa\bib_ kdhhj^kgh\uo dZq_kl\	1	
	3.	L_ogbq_kdZy ih^]hlh\dZ	2	

	4.	<_^_gb_ fyqZ	2	
	5.	HklZgh\dZ fyqZ	2	
	6.	JZa\bib_ ]b[dhkib	2	
		KZfhklhyl_ evgZy jZ[hIZ		
L_fZ <he_c[h		IjZdlbq_kdh_ aZgyib_	8	HD HD 08
	1.	L_ogbdZ [_ahizkghklb gZ aZgyibyo IjZ\beZ b]ju	1	
	2.	Hkgh\gZy kIhcdZ \he_c[hēbjklfZ_sLg ih iehsZ^d_	1	
	3.	JZa\bib_ kd+hkj b k h g h o dZq_ki\ k f klj	1	
	4.	L_ogbdZ i_j_^Zqb fyqZ k\_jom b k	1	
	5.	L_ogbdZ ih^Zqb fyqZ kgbam	1	
	6.	JZa\bib_ kd+hkj b k h g h o dZq_ki\ qZkh\ k_f_klj	1	
	7.	L_ogbdZ gZiZ^Zxs_]h m^ZjZ \ \he	1	
	8.	L_ogbdZ [ehdbjh\Zgby \ \he_c[he	1	
L_fZ E_]dZy Zie_lbdZ		IjZdlbq_kdh_ aZgyib_	12	HD HD 08
	1.	BgkljmdIZ` ih l[_ogbdZ_kghklb b hoj gZ aZgyibyo e_]dhc Zie_lbdhc	2	
	2.	JZa\bib_ \ughkeb\hklb	2	
	3.	H[mq_gb_ ki_pbZevguf e Zie_lbq_	2	
	4.	H[mq_gb_ ki_pbZevguf e Zie_lbq_	2	
	5.	JZa\bib_ kd+hkj b k h g h u g h k e b \ h k l b	2	
	6.	H[mq_gb_ ki_pbZevguf e Zie_lbq_	2	

L_fZ H[sZy nbabq_kdZy ih^]	IjZdlbq_kdh_ aZgyIb_		8	HD HD
	1.	JZa\bIb_ kbeh\uo dZq_kI\	2	08
	2.	JZa\bIb_ kd <hj b="" dzq_ki\<="" hg="" k="" o="" td=""> <td>2</td> <td></td> </hj>	2	
	3.	JZa\bIb_ dhhj^bgZpb	2	
	4.	JZa\bIb_ kbeh\uo dZq_kI\ f_lh^hf Ij_gbjh\db	2	
L_fZ ;Zkd_I[he	IjZdlbq_kdh_ aZgyIb_		10	HD HD
	1.	L_ogbdZ [_ahiZkghkIb IjZ\beZ b]	1	08
	2.	Bamq_gb_ I_ogbdb i_ [Z^k\o_l[ <del>g</del> ey \	1	
	3.	JZa\bIb_ dhhj^bgZpb-k b k d h j b k d g h [Zkd_I[he_	2	
	4.	Bamq_gb_ I_ogbdb i_j_^Zqb fyqZ	2	
	5.	Bamq_gb_ IZdlbdb gZiZ^_gby \ b]	2	
	6.	JZa\bIb_ dhhj^bgZpb-k b k d h j b k d g h [Zkd_I[he_	2	
L_fZ <he_c[he	IjZdlbq_kdh_ aZgyIb_		18	HD HD
	1.	L_ogbdZ [_ahiZkghkIb gZ aZgyIby IjZ\beZ b]ju	2	08
	2.	Hkgh\gZy kIhcdZ \he_c[hebklZ L_ ih iehsZ^d_	4	
	3.	L_ogbdZ i_j_^Zqb fyqZ k\_jom b k	2	

	4.	L_ogbdZ ih^Zqb fyqZ kgbam	2	
	5.	JZa\b b_ kd+hj b k hg b o dZq_k \	2	
	6.	L_ogbdZ gZiZ^Zxs_]h m^ZjZ \ \he	4	
	7.	L_ogbdZ [ehdbjh\Zgby \ \he_c[he_	2	
			160	
>bnn_j_gpbjh\Zgguc aZq_l \ k_f_k				

MKEH<BY J?:EBA:PBB MQ?;GHC >BKPBIEBGU

Lj\_[h\Zgby d fbgbfZ eZg\_hjfmZ e-Mglbgbq\_kdhfm  
h[\_ki\_q\_gbx

< khhI\\_lkl\bb k lj\_[h\Zgbyfb N=HK KIH ih ki\_pba  
l\_j\_q\_gv dZ[bg\_lh\ eZ[hjZihjbc fZkl\_jkdbo b ^  
h[jZah\ZI\_evgh]h mqj\_`^\_gby \dexq\_gu ke\_^mxsb\_ ihf\_  
hl\\_qZlv ^\_ckf\mZsbIZjguf b ijhIb\hih`Zjguf ghjfZf

KihjIb\guc dhfie\_dk  
B]jh\hc kihjIb\guc aZe  
KihjIb\gZy iehsZ^dZ

Ihf\_s\_gb\_ ^ey ojZg\_gby kihjIb\gh]h bg\\_glZjy b ^j  
<k\_ ihf\_s\_gby h[t\_dlu nbabq\_kdhc dmevlmju b kihj  
nbabq\_kdhc]hIh\dhc gZ dhIhjuo j\_Zebam\_lky mq\_[gZy ^b  
dmevlmjZ^a hkgZs\_gu khhI\\_lkl\mxsbf h[hjm^h\Zgb\_f b b  
hl bamqZ\_fuo jZa^\_eh\ ijh]jZffu b \b^h\ kihjIZ Ijh]jZffZ  
©Nbabq\_kdZy dmevlmjZ^h]h[jZah\ZI\_evgh ^he`gZ \dexqZI

mq\_{g}hjhjIb\gh]h h[hjm^h\Zgby b bg\\_glZjy g\_h[oh^bfh]h  
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H[hjm^h\Zgb\_ b bg\\_glZjv kihjIb\gh]h aZeZ

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]bfgZklbq\_kdb\_ dZgZI dZgZI ^ey i\_j\_ly]b\Zgby i\_j  
\ukhIm h[Zy ^hjh`dZ dh\\_j [hjph\kdbc beb IZIZfb  
]bfgZklbq\_kdb\_ fyqb gZ[b\gu\_ fyqb ^ey f\_IZgby ]Zgl\_  
d] k\_dmg^hf\_ju \\_ku gZihevgu\_

dhevpZ [Zkd\_l[hevgu\_ sblu [Zkd\_l[hevgu\_ aZsbl  
sblZ k\_lkd\_l[hevgu\_ fyqb [Zkd\_l[hevgu\_ k\_ldZ \he  
\he\_c[hevgu\_ k dZjfZgZfb \he\_c[hevgu\_nmy]qbeZfyqb^ey

< aZ\bkbfhklb hl \hafh`ghkl\_c\_d\_fgbq\_bkZehvg h[Zau b g  
dZ^jh\h]h ihl\_gpbZeZ i\_j\_kq\_hjIb\gh]h[h]h\Zgby b bg\\_g  
fh`\_l [ulv ^hiheg\_g beb baf\_g\_g

BgnhjZpbhggh\_ h[\_ki\_q\_gb\_ h[mq\_gby  
>ey j\_ZebaZpbb ijh]jZffu [b[ebhl\_qguc nhg^ h[jZah\Z  
bf\_\_l i\_qZlgue\_dljhghjZah\ZI\_evghgubgnhjZpbhggu\_ j\_k  
j\_dhf\_g^m\_fu\_ ^ey bkihevah\Zgby \ h[jZah\ZI\_evghf ijhp

H[yaZI\_evgu\_ i\_qZlgu\_ ba^Zgby

1. ;Zjhg\_gdh < : JZihihjA^hjh\v\_ b nbabq\_kdZy  
klm^\_gih\ [gh\_ ihkh[b\_ ^ey klm^\_gih\ ^kpgbcbijn i\_j\_jZ  
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2. <be\_gkdbc F Y Nbabq\_kdZy dmevlmjZ mq\_[gb  
=hjr dh F hkd\Z DghJm k k<sup>2</sup> ISBN 9785-406-098677. <sup>2</sup>  
85/ KWWSV ERRN UX ERRN 4.05.2022<sup>2</sup> h[ ]Z\_s\_kgby  
we\_dljhguc

3. Dmag\_ph\ < K Nbabq\_kdZy dmevlmjZ mq\_[gb  
Dheh^gbp d F hkd\Z DghJm k k<sup>2</sup> ISBN 9785-406-082713. <sup>2</sup>  
85/ KWWSV ERRN UX ERRN ^ZIZ <sup>2</sup> h[ ]Z\_s\_kgby  
we\_dljhguc

4. J\_r\_lgbdh\ G < Dbkebpug Xk E Zy dmevlmjZ ihkh[b\_  
klm^\_gih\ kj\_^gbo ijhn\_kkbhgZevguo aZ\^:dg^c\_fby ± k

J\_r\_lgbdh\ G < Dbkebpug X E IZelb\_\bq J  
Nbabq\_kdZy dmevlmjZ ihkh[b\_ klm^\_gih\ kj\_^g  
ijhn\_kkbhgZevguo aZ\^:dg^c\_fby ± k

3.2.2 We\_dljhguc\_ba^Zgby

1. Nbabq\_kdZy dmevlmjZ mq\_[gb d b ijZdlb dmf ^ey kj\_  
h[jZah\Zgby : ; Fmè eF\_hk abZ^j B@^ZI\_evkl\h XjZcl  
k<sup>2</sup> Ijhn\_kkbhgZevgh\_ h[jZ ISBN 9785-534-026122. <sup>2</sup> L\_dkl  
we\_dljhguc W;K XjZURL: <https://lit.ru/bcode/469681>

2. Nbabq\_kdZy dmevlmjZ mq\_[gh\_ ihkh[b\_ ^ey kj\_  
h[jZah\Zgby ? < Dhg\_\_\Z >b ^j<@ Dhlg^\_f\Z d p b ^c  
i\_j\_jZ[ b ^hi F hkd\Z Ba^ZI\_evkl\h XjZcl k<sup>2</sup>



ljhn\_kkbhgZevgh\_ h[jZah\Zgby X G ISBN 9785-534-135541. 2 L\_dkl  
we\_dljhguc W;K XjZcl > k URL: https://urait.ru/bcode/475342

### 3.2.3. > hihegbl\_evglh\_q d k d b

1. :eeygh\ X G Nbabq\_kdZy dmevlmjZ mq\_  
ijhn\_kkbhgZevgh]h h[jZah\Zgby X G :eeygh\ Ba^:  
bkij^2 Fhkd\Z Ba^ZI\_evkl2021XjZcl k^2 ljhn\_kkbhgZevg  
h[jZah\Zgbl ISBN 9785-534-023091. 2 L\_dkl we\_dljhguc W;  
> k Z c^1 URL: https://urait.ru/bcode/471143

2. Y]h^bg < < Nbabq\_kdZy dmevlmjZ hkgh\u kih  
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Ba^ZI\_evkl\h XjZc^1 k^2 ljhn\_kkbhgZevgh\_ h[jZah\  
ISBN 9785-534-103496. 2 L\_dkl we\_dljhguc  
W;K XjZcl > k URL: https://urait.ru/bcode/475602

3.4. Lj\_[h\Zgby d d\ZebnbdZpbb i\_^Z]h]bq\_kdbodZ^j  
J\_ZebaZpby ijh]jZffu mq\_[ghc ^bkpbiebgu ©Nba  
h[\_ki\_qb\Z\_lky i\_^Z]h]bq\_kdbfb dZ^jZfb bf\_xsbfb \ukr  
h[jZah\Zgb\_ beb kj\_^g\_\_ ijhn\_kkbhgZevgh\_ h[jZah\  
ih^]hIh\db H[jZah\Zgb\_ b i\_^Z]h]bdZ beb \ h[eZk  
ij\_ih^Z\Z\_fhfm ij\_^f\_lm [\_a ij\_^ty\e\_gby lj\_[h\Zgbc d k

DHGLJHEV B HP?GD: J?AMEVL:LH< HK<H?GBY M  
>BKPBIEBGU

<p>JZa^_e l_fZ</p>	<p>J_amevlZlu h[mq ij_^f_lgu_ b f_lZij_</p>	<p>Hkgh\gu_ ihdZ hp_gdb j_ame</p>
<p>Nbabq_kdZy dmevlmjZ b nhjfbjh\Zgb_ `bag_ggh \Z`g mf_gbc b gZ\u kihkh[hf ijbf_g_gby hkgh\guo ihimeyjguo l_ogheh]bc nbadmevlmjgh kihjlbghe ^_yl_evghklb L_fZ E_]dZy Zle_lb</p>	<p>Mf_gb_ bkihevah\Zlv jZaghh[jZagu_ nhjfu nbadmevlmjghc ^by^e hj]ZgbaZpbb a^hjh\h `bagb Zdlb\gh]h hl^ ^hkm]Z Mf_gb_ ijh^mdlbghe \aZbfh^_ckl\h\Zlv \ i kh\f_klghe ^_yl_evgh mqblu\Zlv ihabpbb ^j mqZklgbdh\ ^_yl_evgh wnn_dlb\gh jZaj_rZlv dhgnebdlu</p>	<p>;_] f_ljh\ Djhkk f ^_\mrdb f xghrb</p>
<p>L_fZ H[sZy nbabq_ k ih^]hlh\dZ</p>	<p>&lt;eZ^_gb_ kh\j_f_ggu l_ogheh]byfb mdj_ie khozZg_gby a^hjh\vy ih^^_j`Zgby jZ[hlhkihkh[ghklb ijhnbeZdlbdb ij_^mij aZ[he_\Zgbc k\yaZg mq_[ghc b ijhba\h^kl ^_yl_evghklvx Mf_gb_ kZfhklhyl_ev hij_^_eylv p_eb ^_yl khklZ\eylv ieZgu ^_y</p>	<p>K]b[Zgb_ b jZa] jmd \ mihj_ e_` hl`bfZgby lh^ly]b\Zgb_ gZ i_j_deZ^bg_ K]b[Zgb_ lmeh\ ih eh`_gbb e_`Z nbdkZggh ij_kk lju`db gZ kdZdZed_ ^_\mr Ju\hd ]bjb xghr</p>

<p>L_fZ ;Zkd_l[he</p>	<p>&lt;eZ^_gb_ l_ogbq_kd ijbzfZfb b ^\b]ZI_ev ^_ckl\byfb [Zah\uo \k kihjIZ Zdlb\gh_ ijb \ b]jh\hc b khj_\gh\Z ^_yl_evghklb Mf_gb_jh^mdlb\gh h[s \aZbfh^_ckl\h\Zlv \ i kh\f_klghc ^_yl_evgh mqblu\Zlv ihabpbb ^j mqZklgbdh\ ^_yl_ev wnn_dlb\gh jZaj_rZlv dhgnebdlu</p>	<p>;jhkdb fyqZ \ dh k[hdm RljZngu_ [jhkdb</p>
<p>AZq_l</p>	<p>&lt;eZ^_gb_ kh\j_f_ggu l_ogheh]byfb mdj_ie khozZg_gby a^hjh\vy ih^^_j`Zgby jZ[hlhkihkh[ghklb ijhnbeZdlbdb ij_^mij aZ[he_\Zgbc k\yaZg mq_[ghc b ijhba\h^kl ^_yl_evghklvx Mf_gb_ kZfhklhyl_ev hij_^_eylv p_eb ^_yl khklZ\eylv ieZgu ^_y</p>	<p>lh^ly]b\Zgb_ gZ i_j_deZ^bg_ lh^gbfZgb_ lme ba iheh`_gby e_ kibg_ ij_kk K]b[Zgb_ b jZa] jmd \ mihj_ e_` hl`bfZgby</p>
<p>L_fZ GZklhevguc l_</p>	<p>&lt;eZ^_gb_ l_ogbq_kd ijbzfZfb b ^\b]ZI_ev ^_ckl\byfb [Zah\uo \k kihjIZdlb\gh_ ijb \ b]jh\hc b khj_\gh\Z ^_yl_evghklb Mf_gb_ ijh^mdlb\gh h \aZbfh^_ckl\h\Zlv \ i kh\f_klghc ^_yl_evgh mqblu\Zlv ihabpbb ^j mqZklgbdh\ ^_yl_ev wnn_dlb\gh jZaj_rZlv dhgnebdlu</p>	<p>GZ[b\Zg_bggbkgh fyqZ B]jZ \ iZjZo</p>

<p>L_fZ Nml[he</p>	<p>&lt;eZ^_gb_ nbabq_kdb mijZ`g_gbyfb jZaghc nmgdpbhgZevghc gZijZ\e_gghklb bkih bo \ j_`bf_ mq_[ghc ijhba\h^kl\_gghc ^_y k p_evx ijhnbeZdlbdk i_j_mlhfe_gby b khoj \ukhdhc jZ[hlhkih]h[ Mf_gb_ kZfhklhyl_ev hij_^_eylv p_eb ^_yl khklZ\eylv ieZgu ^_y</p>	<p>M^Zju gZ lhqgh Hl[hj fyqZ Mq_ b]jZ Q_eghqguc [_] fbg k_d M^Zju ih fyqm \ klhjhguklihu M^Zju ih dZlZxs fyqm M^Zju iijhu]Zxs_fr fyqm M^Zju ih e_lys_ fyqm M^Zju ih fyqm g iyldhc b ]heh\hc @hg]ebjh\Zgb_ lh^ly]b\Zgb_ gZ i_j_deZ^bg_</p>
<p>L_fZ. &lt;he_c[he</p>	<p>&lt;eZ^_gb_ l_ogbq_kd ijbzfZfb b ^\b]Zl_evgh ^_ckl\byfb [Zah\uo \ kihjlZ Zdlb\gh_ ijbfb \b]jh\hc b khj_\gh\Zl ^_yl_evghklb Mf_gb_ ijh^mdlb\gh h \aZbfh^_ckl\h\Zlv \ i kh\f_klghc ^_yl_evgh mqblu\Zlv ihabpbb ^j mqZklgbdh\ ^_yl_evgh wnn_dlb\gh jZaj_rZlv dhgnebdlu</p>	<p>l_j_^ZqZ fyqZ k kgbam  lh^ZqZ fyqZ kgk</p>

<p>AZq_l</p>	<p>&lt;eZ^_gb_ kh\j_f_ggu  l_ogheh]byfb mdj_ie  khojZg_gby a^hjh\vy  ih^^_j`Zgby  jZ[hIhkihkh[ghklb  ijhnbeZdlbdb ij_^mij  aZ[he_\Zgbc k\yaZg  mq_[ghc b ijhba\h^kl  ^_yl_evghklvx  Mf_gb_ kZfhklhyl_ev  hij_^_eylv ^p_ye_bevgh  khklZ\eylv ieZgu ^_y</p>	<p>Ih^ly]b\Zgb_ gZ  i_j_deZ^bg_  Ih^gbfZgb_ lme  ba iheh`_gby e_  kibg_ ij_kk  K]b[Zgb_ b jZa]  jmd \ mihj_ e_`  hl`bfZgby</p>
<p>Nbabq_kdZy dmevlmjZ b nhjfbjh\Zgb_ `bag_ggZ\úZ  kihkh[hf ijbfg_gby hkgh\guo ihimeyjguo \b^h\ kihjlZ  WIZi jZamqb\Zgby b kh\_jr_gkl\h\Zgby</p>		
<p>L_fZ.  E_]dZy Zle_lb</p>	<p>Mf_gb_ bkihevah\Zlv  jZaghh[jZagu_ nhjfu  nbadmevlmjghc ^_yl_  hj]ZgbaZpbb a^hjh\h  `bagZdlb\gh]h hl^uoZ  ^hkm]Z  Mf_gb_ ijh^mdl\b\gh  \azbfh^_ckl\h\Zlv \ i  kh\f_klghc ^_yl_evgh  mqblu\Zlv ihabpbb ^j  mqZklgbdh\ ^_yl_evgh  wnn_dlb\gh jZaj_rZlv  dhgnebdlu</p>	<p>;_] f_ljh\  Djhkk  f± ^_\mrdb  f-(xghrb</p>

<p>L_fØ. H[sZy nbabc ih^]hIh\dZ</p>	<p>&lt;eZ^_gb_ kh\j_f_ggu l_ogheh]byfb mdj_ie khojZg_gby a^hjh\vy ih^^_j`Zgby jZ[hIhkihkh[ghklb ijhnbeZdlbdb ij_^mij aZ[he_\Zgbc k\yaZg mq_[ghc b ijhba\h^kl ^_yl_evghklvx Mf_gb_ kZfhklhyl hij_^eylv p_eb ^_yl khklZ\eylv ieZgu ^_y</p>	<p>K]b[Zgb_ b jZa] jmd \ mihj_ e_` hl`bfZgby lh^ly]b\Zgb_ gZ i_j_deZ^bg_ K]b[Zgb_ lmeH\ ih eh`_gbb e_`Z nbdkZpbb gh] i lju`db gZ kdZdZed_ ^_\mr Ju\hdj]b xghrb</p>
<p>L_fØ. ;Zkd_l[he</p>	<p>&lt;eZ^_gb_ l_ogbq_kd ijbzfZfb b ^\b]Zl_ev ^_ckl\byfb [Zah\uo \ kihjlZ Zdlb\gh_ ijbf \ b]jh\hc b khj_\gh\Z ^_yl_evghklb Mf_gb_ ijh^mdl b\gh \aZbfh^_ckl\h\Zlv \ kh\f_klghc ^_yl_ev mqblu\Zlv ihabpbb mqZklgbdh\ wnn_dlb\gh jZ dhgnebdlu</p>	<p>;jhkdb fyqZ \ dh k[hdm RljZngu_ [jhkdb</p>
<p>AZq_l</p>	<p>&lt;eZ^_gb_ kh\j_f_ggu l_ogheh]byfb mdj_ie khojZg_gby a^hjh\vy ih^^_j`Zgby jZ[hIhkihkh[ghklb ijhnbeZdlbdb ij_^mij aZ[he_\Zgbc k\yaZg mq_[ghc b ijhba\h^kl ^_yl_evghklvx Mf_gb_ kZfhklh hij_^eylv p_eb ^_yl khklZ\eylv ieZgu ^_y</p>	<p>lh^ly]b\Zgb_ gZ i_j_deZ^bg_ lh^gbfZgb_ lme ba ihegby e_`Z kibg_ ij_kk K]b[Zgb_ b jZa] jmd \ mihj_ e_` hl`bfZgby</p>



<p>L_fZ2. &lt;he_c[he</p>	<p>&lt;eZ^_gb_ l_ogbq_kd ijbzfZfb b ^\b]ZI_ev ^_ckl\byfb [Zah\uo \k kihjlZ ZdIb\gh_ ijb \ b]jh\hc b khj_\gh\Z ^_yl_evghklb Mf_gb_jh^mdIb\gh h[s \aZbfh^_ckl\h\Zlv \ i kh\f_klghc ^_yl_evgh mqblu\Zlv ihabpbb ^j mqZklgbdh\ ^_yl_ev wnn_dIb\gh jZaj_rZlv dhgnebdlu</p>	<p>Ih^ZqZ fyqZ kgk  Ih^ZqZ fyqZ k\</p>
<p>AZq_l</p>	<p>&lt;eZ^_gb_ kh\j_f_ggu l_ogheh]byfb mdj_ie khozZg_gby a^hjh\vy ih^^_j`Zgby jZ[hIhkihkh[ghklb ijhnbeZdIbdb ij_^mij aZ[he_\Zgbc k\yaZg mq_[ghc b ijhba\h^kl ^_yl_evghklvx Mf_gb_ kZfhklhyl_ev hij_^_eylv p_eb ^_yl khklZ\eylv ieZgu ^_y</p>	<p>Ih^ly]b\Zgb_ gZ i_j_deZ^bg_ Ih^gbfZgb_ lme ba iheh`_gby e kibg_ ij_kk K]b[Zgb_ b jZa] jmd \ mihj_ e_` hl`bfZgby</p>
<p>Nbabq_kdZy dmevlmjZ b nhjfbjh\Zgb_ `bag_ggh \Z` kihkh[hf ijbfg_gby hkgh\guo ihimeyjguo \b^h\ kihjlZ WIZjZamqb\Zgby b kh\_jr_gkl\h\Zgby</p>		



<p>L_fZ3. E_]dZy Zle_ib</p>	<p>Mf_gb_ bkihevah\Zlv jZaghh[jZagu_ nhjfu nbadmevlmjghc ^_yl_ hj]ZgbaZpbb a^hjh\h 'bagb Zdlb\gh]h hl^ ^hkm]Z Mf_gb_ ijh^mdlb\gh \aZbfh^_ckl\h\Zlv \ i kh\f_klghc ^_yl_evgh mqblu\Zlv ihabpbb ^j mqZklgbdh\ ^_yl_evgh wnn_dlb\gh jZaj_rZlv dhgnebdlu</p>	<p>;-] f_ljh\ Djhkk f± ^_\mrdb f- xghrb lju`hd \ ^ebgm</p>
<p>L_fZ4. H[sZy nbabq_ ih^]hlh\dZ</p>	<p>&lt;eZ^_gb_ kh\j_f_ggu l_ogheh]byfb mdj_ie khojZg_gby a^hjh\vy ih^^_j`Zgby jZ[hlhkihkh[ghklb ijhnbeZdlbdb ij_^mij aZ[he_\Zgbc k\yaZg mq_[ghc b ijhba\h^kl ^_yl_evghklvx Mf_gb_ kZfhklh hij_^_eylv p_yelb evgh khklZ\eylv ieZgu ^_y</p>	<p>K]b[Zgb_ b jZa] jmd \ mihj_ e_` hl`bfZgby lh^ly]b\Zgb_ gZ i_j_deZ^bg_ K]b[Zgb_ lmeh\ ih eh`_gbb e_`Z nbdkZpbb gh] i lju`db gZ kdZdZed_ ^_\mr Ju\hd ]bjb xghr Q_eghqguc [_] o f f k_d</p>
<p>L_fZ5. ;Zkd_l[he</p>	<p>&lt;eZ^_gb_ l_ogbq_kd ijbzfZfb b ^\b]Zl_evgh ^_ckl\byfb [Zah\uo \k kihjlZ Zdlb\gh_ ijbfb \ b]jh\hc b khj_\gh\Z ^_yl_evghklb Mf_gb_ ijh^mdlb\gh \aZbfh^_ckl\h\Zlv \ kh\f_klghc ^_yl_ mqblu\Zlv ihabpbb mqZklgbdh\ ^_yl_ wnn_dlb\gh jZ dhgnebdlu</p>	<p>;jhkdb fyqZ \ dh k[hdm RljZngu_ [jhkdb</p>

A Zq_l	<eZ^_gb_ kh\j_f_ggu l_ogheh]byfb mdj_ie khojZg_gby a^hjh\vy ih^^_j`Zgby jZ[hlhkihkh[ghklb ijhnbeZdlbdb ij_^mij aZ[he_\Zgbc k\yaZg mq_[ghc b ijhba\h^kl ^_yl_evghklvx Mf_gb_ kZfhklh hij_^_eylv p_eb ^_yl khklZ\eylv ieZgu ^_y	lh^ly]b\Zgb_gZ i_j_deZ^bg_  lh^gbfZgb_lme ba iheh`_gby e_ kibg_ ij_kk  K]b[Zgb_b jZa] jmd \ mihj_ e_` hl`bfZgby
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:>:IL:PB Y J:;HQ?C IJH=J:FFU IJB H;MQ?G B B EBP  
H=J:GBQ?GGUFB <HAFH@GHKLYFB A>HJH<VY

:^ZilZpby jZ[hq\_c ijh]jZffu ^hklb\we bng B ABQ?KD:Y  
DMEVLMijh\h^biky ijb j\_ZebaZpbb Z^Zilb\ghc h[jZah\Zl  
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