



Hkgh\gZy ijhn\_kkbhgZevgZy h[jZah\ZI\_ evgZy ijh]jZffZ  
N\_^\_jZevgh]h ]hkm^Zjkl\\_ggh]h h[jZah\ZI\_ evgZy H K I Z g h Z j  
ki\_pbZevghklb kj\_^g\_]h ijhn\_kkbhgZevgh]h h[jZah\Zgby  
ml\\_j`^\_gg]h dZahf Fbgbkl\_jkl\Z ijhk\\_s\_gby JN < hl gh  
j\_^ hl \oh^ys\_c \ khkIZ\ mdjmig\_gghc ]jmiiu k  
Bah[jZabl\_evgh\_ b ijbdeZ^gu\_ \b^u bkdmkkl\

J:KKFHLJ?GH

gZ aZk\_^Zgbb l\_^Z]h]b d H Q M h ] @ = k i p r l h z h e h l ]

JZajZ[h!q b Z [Z^Zgh\Z :crZI FmkZ\_\gZ klZjrb d H Q M i k @ = Z I Z a l \_ e

J\_p\_ga\_glu  
;mIIZ\_\ FmkZ KZb^h\bq d Z Z ^ b f Z Z b q b k a b b d h gZmd IHQM ©=I

>`Zo[Zjh\Z AZ]jZI FZ]hf\_^Zeb\_\gZ d [ g ^hp\_gl dZn\_^j  
f\_lh^bdb ij\_ih^Z\Zgby nZdmevl\_IZ [bheh]bb ]\_h]jZnbb b c

KH>?J@:GB?

1. I:KIHJL IJBF?JGHC HJ:FFU MQ?;G  
>BKPBIIEBGU
2. KLJMDLMJ: B IJBF??JGKH>?J@:GB? MQ?  
>BKPBIIEBGU
3. MKEH<BY J?:EBA:PB;GHC >BKPBIIEBGU
4. DHGLJHEV B HP?GDAMEJ?L:LH< HK<H'  
MQ?;GHC >BKPBIIEBGU
5. :>:IL:PB Y J;;HQ?C IJH=J:FFU IJB H;MQ?GI  
H=J:GBQ?GGUFB <HAFH@GHKLYFB
6. EBKL I?J?ML<?J@>?GJLM:EBA:PB  
J;;HQ?CIJH=J:FFU >BKIIEBGU

I:KIHJL IJH=J:FFMQ?;GHC >BKPBIIEBGU

HM> FZI\_fZlbdZ

1.1. H[eZklv ijb\_f\_g\_gby ijh]jZffu

JZ[hqZy ijh]jZffZ mq\_[ghc ^bkpbiebg y\ey\_lky d  
h[jZah\ZI\_evghc ijh]jZffu \ khhl\\_KIHdbb ki\_p=Zkvs54.02.01  
>baZcg ih hljZkeyf

F\_klh mq\_[ghc ^bkpbiebg y\ey\_lky d h[jZah\ZI\_evghc ijh]jZffu  
>bkpbiebgZ FZI\_fZlbdZ Ze]\_[jZ b gZqZeZ fhZlZfZlbaZdh  
]\_hf\_ljbylghkblky d h[s\_h[jZah\ZI\_evghfm [ehdm 54.02.01 ki\_p  
>baZcgh hljZkeyf

P\_eb b aZ^Zqb mq\_[ghc ^bkpbiebg y\ey\_lky d j\_amevlZIZf hk\  
mq\_[ghc ^bkpbiebg

<j\_amevlZI\_ hk\h\_gby mq\_[ghc ^bkpbiebg y\ey\_lky d  
- \uihegylv Zjbnf\_lbq\_kdb\_ ^\_ckl\by gZ^ qbkeZfb khq\_lZy  
ijb\_fu gZoh^blv ijb[eb`\_ggu\_ agZq\_gby \\_ebqbg b ih]j  
Z[khexlgZy b hlghkbl\_evghc h[kjZ\gby]Zlv gby  
- gZoh^blv agZq\_gby dhjgy kl\_i\_gb eh]ZjbnfZ ljb]hghf\_l  
hkgh\\_ hij^\_e\_gby bkihevamy ijb g\_h[oh^bfhklb bgklj  
ihvah\Zlvky ijb[eb`\_gghc hp\_gdhc ijb ijZdlbq\_kdbo jZkq\_  
- \uihegylv ij\_h[jZah\Zgby]gbc ijb\_f\_gyy nhjfmeu k\yaZ  
k\hckl\Zfb kl\_i\_g\_c eh]Zjbnfh\ ljb]hghf\_ljbq\_kdbo nmgdp  
- \uqbkeylv agZq\_gb\_ nmgdpbb ih aZ^Zgghfm agZq\_gbx Z  
kikhk[Zo aZ^Zgby nmgdpbb  
- hij^\_eylv hkgh\gu\_ k\hckl\Z qbkeh\jbjh\Zlgd\p cg Zb\jeZnk dZ  
- kljhblv jZnbdb bamq\_gguo nmgdpbc beexkljbjh\Zlv i  
we\_f\_glZjguo nmgdpbc  
- bkihevah\Zlv ihgylb\_ nmgdpbb ^ey hibkZgby b ZgZebaZ a  
- gZoh^blv ijhba\h^gu\_ we\_f\_glZjguo nmgdpbc  
- bkihevah\Zlv igmbxa\wey bamq\_gby k\hckl\ nmgdpbc b ihkljh  
- ijb\_f\_gylv ijhba\h^gmx ^ey ijh\\_^\_gby ijb[eb`\_gguo \uqbke  
ijbdeZ^gh]h oZjZdl\_jZ gZ gZoh`^\_gb\_ gZb[hevr\_]h b gZbf  
- \uqbkeylv \ ijhkl\_crbo kemqZyo iehsZ^bih evah\Zgfu\_fk  
hij^\_e\_ggh]h bgl\_]jZeZ  
- j\_rZlv jZpbhgZevgu\_ ihdZaZI\_evgu\_ eh]Zjbnfbq\_kdb\_  
mjZ\g\_gby k\h^ysb\_ky d ebg\_cguf b d\Z^jZlguf Z lZd`\_ Z  
b kbkl\_fu  
- bkihevah\Zlv jZnbnq\_kdbc f\_lh^ j\_r\_gby kh\jZ\g\_gbc b g\_jZ  
- bah[jZ`Zlv gZ dhj^bgZlghc iehkdhklb j\_r\_gby mjZ\g\_gbc  
^\mfy g\_ba\\_klgufb  
- khklZ\eylv b j\_rZlv mjZ\g\_gby b g\_jZ\\_gkl\Z k\yau\Zxsb\_  
\ l\_dklh\uo \ lhf qbke\_ ijbdeZ^guo aZ^ZqZo  
- j\_rZlv ijhkl\_crb\_ dhj\bgZahZ^Zqb f\_lh^hf i\_j\_[hjZ Z  
bkihevah\Zgb\_f ba\\_klguo nhjfme  
- \uqbkeylv \ ijhkl\_crbo kemqZyo \\_jhylghklb kh[ulbc gZ l  
bkoh^h\  
- jZkihagZ\Zlv gZ q\_jl`\_Zo b fh^\_eyo ijhkljZgkl\\_ggu\_

lj\_of\_jgu\_ h[t\_dhubk Zgbyfb bah[jZ`\_gbyfb  
 - hibku\Zlv \aZbfg\_h\_ jZkiheh`\_gb\_ iyyfuo b iehkdhkl\_c  
 Zj]mf\_glbjh\Zlv k\hb km`^\_gby h[ wlhf jZkiheh`\_gbb  
 - ZgZebabh\Zlv \ ijhkl\_crb\_ kemqZyo \aZbfg\_h\_ jZkihe  
 ijhkljZgkl\  
 - bah[jZ`Zlv hkgh\gu\_Zgghh]jb djm]eu\_ l\_eZ \uihegylv  
 mkeh\byf aZ^Zq  
 - kljhblv ijhkl\_crb\_ k\_q\_gby dm[Z ijbafu ibjZfb^u  
 - j\_rZlv ieZgbf\_ljbq\_kdb\_ b ijhkl\_crb\_ kl\_j\_hf\_ljbq\_kdb\_ a  
 ]\_hf\_ljbq\_kdbo \\_ebqbg ^ebg m]eh\ iehsZ^\_c h[t\_fh\  
 - bkihevah\Zlvj\_r\_gbb kl\_j\_hf\_ljbq\_kdbo aZ^Zq ieZgbf\_ljb  
 f\_lh^u  
 - ijh\h^blv ^hdZaZl\_evgu\_ jZkkm`^\_gby \ oh^\_ j\_r\_gby aZ^Zq  
 < j\_amevlZl\_ hk\h\_gby mq\_[ghc ^bkpbiebaggZhv]mqZxsbc ky ^h  
 - agZq\_gb\_ fZl\_fZlbq\_kdhc gZmdb ^ey j\_r\_gby laZj^Zq b\  
 ijZdlbd\_ rbjhl\_m b \ lh ` \j\_fy h]jZgbq\_gghklv ijbfg\_g  
 f\_lh^h\ d ZgZebam b bkke\_ ^h\Zgbx ijhp\_kkh\ b y\e\_gbc \  
 - agZq\_gb\_ ijZdlbdb b \hijhkh\ \hagbdZxsbo \ kZfhc fZl\_fZ  
 b jZa\blby ZZhgk\_kdhc gZmdb bklhjbx jZa\blby ihgyby  
 fZl\_fZlbq\_kdh]h ZgZebaZ \hagbdgh\\_gby b jZa\blby ]\_hf\_  
 - mgb\\_jkZevguc oZjZdl\_j aZdhgh\ eh]bdb fZl\_fZlbq\_kd  
 ijbfg\_gbfhklv \h \k\_o h[eZklyo q\_eh\\_q\_kdhc ^\_yl\_evghkl

EbqghklguamevlZlu hk\h\_gby ^bkpbiebgu

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

EJ HkhagZxsbc k\_[y ]jZ`^Zgbghf b aZsblgbdhf \\_ebdhc klj  
 EJ ljhy\eyxsbc Zdlb\gm\_x ]jZ`^Zgkdmx ihabpbx ^  
 ijb\\_j`\_gghklv ijbgpbiZf q\_klghh]kklbihj^djulhklb wdghgf  
 Zdlb\guc b mqZkl\mxsbc \ klm^\_gq\_kdhf b l\_jjblhjbZevghf  
 qbke\_ gZ mkeh\byo ^h[jh\hevq\_kl\Z ijh^mdlb\gh \aZbfh^\_ck  
 ^\_yl\_evghklb h[s\_kl\\_gguo hj]ZgbaZpbc  
 EJ Kh[ex^ZxsbcijZhg]h]jy^dZ ke\_ ^mxsbc b^\_ZeZf ]jZ`^Zgk  
 h[\_ki\_q\_gby [\_ahiZkghklb ijZ\ b k\h[h^ ]jZ`^Zg Jhkkbb E  
 ijhy\e\_gbyf ij^klZ\bl\_e\_c km[dmevlmj hlebqZxsbc bo hl ]j  
 ^\\_bZglguf ih\\_^\_gb\_f >\_fhgk]jbjlrbxsbcijg^mij`^Zxsbc khpb  
 hiZkgh\_ ih\\_^\_gb\_ hdjm`Zxsbo  
 EJ ljhy\eyxsbc b ^\_fhgkljbjmxsbc m\Z`\_gb\_ d ex^yf l  
 p\_gghklv kh[kl\\_ggh]h ljm^Z Klj\_fysbcky d nhjfbjh\Zgbx \ k  
 b ijhn\_kkbhgZevgh]h dhgn\_kkbhgZevgh]h @Z^a  
 EJ >\_fhgkljbjmxsbc ijb\\_j`\_gghklv d jh^ghc dmevlmj\_ bkl  
 hkgh\\_ex[\b d Jh^bg\_ jh^ghfm gZjh^m fZehc jh^bg\_ ijbgy  
 p\_gghkl\_c fgh]hgZpbhgZevgh]h gZjh^Z Jhkkbb  
 EJ ljhy\eyxsbc m\Z`\_gb\_ d ex^yf l hkdZgby b jhlh\ghklv d r  
 khpbZevghc ih^^\_j`d\_ b \hehgl\_jkdbo ^\b`\_gbyo  
 EJ HkhagZxsbc ijbhjbl\_lgm\_x p\_gghklv ebqghklb q\_  
 kh[kl\\_ggmx b qm`mx mgbZevghklv \ jZaebqguo kblmZpby  
 ^\_yl\_evghklb  
 EJ Hj\eyxsbc b ^\_fhgkljbjmxsbc m\Z`\_gb\_ d ij^klZ\bl  
 wlghdmevlmjguo khpbZevguo dhgn\_kkbhgZevguo b bguo



KLJMDLMJ: B IJBF?JGH? KH>?J@:GB? MQ?;GHC >BKPB  
H[t\_f mq\_[ghc ^bkpbie~~m~~gu[~~g~~h~~o~~^jZ[hlu

| <b^ mq_[ghc jZ[hlu                              | H[t_f qZk |
|---|-----------|
| H[t_f h[jZah\ZI_evghc <del>g</del> Z]jmadb      | 156       |
| <h \aZbfh^_ckl\bb k ij_ih^Z\ZI_e_f              | 146       |
| \ lhf qbkhijZdlbq_kidh <del>h</del> chlh:\d_    |           |
| L_hj_lbq_kdh_ h[mq_gb_                          | 36        |
| ijZdlbq_kdb_ aZgylby                            | 110       |
| dhgljhevgu_ jZ[hlu                              |           |
| dmjkh\Zy jZ[hIZ _kj <del>o</del> b_d]^mkfhlj_gh |           |
| DhgkmevlZpby                                    |           |
| ljhf_`mlhqgZy ZII_klZpby                        |           |
| KZfhklhyl_evgy jZ[hIZ                           | 10        |
| ljhf_`mlhqgZy ZII_klZ <del>h</del> fywdaZf_gZ   |           |

2. L\_fZlBq\_kieZg b kh^\_j`Zgb\_ mq\_[ghc ^bkpbiebg

| GZbf_gh\Zgb<br>jZa^_eh\ b l | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ kZfhklhyl_ev               | H[t_f qZk | Mjh\_g<br>mk\_h_g |
|-----------------------------|--|-----------|-------------------|
| 1                           | 2  |           | 4                 |
| JZa^_e JZa<br>ihgyTby h qbk |  | 10        |                   |
| L_fZ<br>>_ckl\bl_ev         | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                            | 1         | 1,2,3             |
| qbkeZ b \_eb                | 1   >_ckl\bl_evgu_ qbk_e                                 |           |                   |
|                             | 2   ljb eb_gb ^_ckl\bl_evguo qbk_e dhg_ggufb ^_kylbc     |           |                   |
|                             | 3   lh j_rghkl b eb_gguo \uqbke_gbc                      |           |                   |
|                             | l Zdlbq_kdh_aZgy b_ <uqbke_gb_ ih j_rghkl_c  jb eb       | 1         |                   |
|                             | KZfhklhyl_evgy jZ[h]Z                                    |           |                   |
| L_fZ<br>Dhfe_dkgu_ q        | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                            |           | 1, 2, 3           |
|                             | 1.   lhgy b_ dhfe_dkguo qbk_e                            | 1         |                   |
|                             | 2.   KmffZ  jhba\_^_gb_ mfg h`_gb_ b ^_e_gb_ dhfe_dk     |           |                   |
|                             | KZfhklhyl_evgy jZ[h]Z                                    |           |                   |
| L_fZ Dhigb<br>kl_i_gb       | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                            | 1         |                   |
|                             | HagZdhfe_gb_k ihgy b_kf dhgy @\hckl\Zfb jZ^bdZeh\ b      |           |                   |
|                             | kjZ\g_gby dhig_c Nhifmehjh\Zgb hij ^_e_gby dhigy b       |           |                   |
|                             | kjZ\g_gb_ dhig_c \uiheg_gb_ ijbdb^db agZq_gby kt_i_gb kj |           |                   |
|                             | [md\_gguo \ujZ_gbc kh^_j`Zsbo jZ^bdZeu <uiheg_gb         |           |                   |
|                             | kh^_j`Zsbf jZ^bdZeu hkms kl\eyy g h[oh^bfu_ ih^klZg      |           |                   |
|                             | Hij ^_e_gb_ jZ\ghkbevg hklb \ujZ_gbc k jZ^bdZeZfb j      |           |                   |
|                             | mjZ\gbc HagZdhfe_gb_k ihgy b_f kl_i_gb k ^_ckl\bl_e      |           |                   |
|                             | GZoh^_gb_ agZq_gbc kl_i_gb bkihevamy ijb_g h[oh^b        |           |                   |
|                             | kl ^kl\Z AZibku\Zgb kldhgy @\b^_kl_i_gb k ^jh[guf ih     |           |                   |
|                             | gZh[h]hl Nhifmehjh\Zgb @\hckl\Zfb jZ^bdZeh\ b            |           |                   |
|                             | ihdZaZl_e f \uiheg_gb_ ijbdb^db agZq_gby kt_i_gb kj      |           |                   |
|                             | lj_hljZah\Zgb_qbkeh\uo_b [md\_gguo \ujZ_gbc kh^_j`       |           |                   |
|                             | k\hckl\Z Jr_gb_ ihdZaZl_evguo mjZ\g_gbc HagZdhfe         |           |                   |
|                             | kl_i_g_c ijb \uqbke_gbb kj_ gbo ^_e_gbb hlj_adZ \_ca     |           |                   |
|                             | ijbdeZ^guo aZ^Zg_gZ keh_gu_ ijhp_glu                     |           |                   |
|                             | l Zdlbq_kdb_aZgy b_ gb_ dhig_c gZlmjZevghc kl_i_gb       | 2         |                   |
| L_fZ<br>BjjZpbhgZevg        | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                            | 1         | 1,2,3             |
| mjZ\g_gby kb                | 1   BjjZpbhgZevgu_ mjZ\g_gby kbkl_f                      |           |                   |
|                             | l Zdlbq_kdb_aZgy b_ bjjZpbhgZevguo mjZ\g_gbc kbkl        | 2         |                   |
|                             | KZfhklhyl_evgy jZ[h]Z                                    |           |                   |
| L_fZ Kl_i_gb<br>jZpbhgZevgu | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                            | 1         | 1,2,3             |
| ihdZaZl_eyfb                | 1   Kl_i_gb k jZpbhgZevgufb ihdZaZl_eyfb b bo k\hckl\Z   |           |                   |
|                             | l Zdlbq_kdb_aZgy b_ <uqbke_gb_ kl_i_g_c k jZpbhgZev      | 2         |                   |



|                 |   |   |       |
|-----------------|---|---|-------|
| k\hckl\Z        | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| L_fZ Kl_i_g     | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            | 1 | 1,2,3 |
| ^_ckl\bl_evgu   | 1   Kl_i_gb k^_ckl\bl_evgufb ihdZaZI_eyfb b bo k\hckl\Z |   |       |
| ihdZaZI_eyfb    | ljZdlbq_kdb_aZgylyby <uqbke_gb_ kl_i_g_c k^_ckl\bl      | 2 |       |
| k\hckl\Z        | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| L_fZ Eh Zjb     | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            | 1 | 1,2,3 |
| K\hckl\Z eh Zjb | 1   Eh Zjbnfu K\hckl\Z eh Zjbnfh\                       | 4 |       |
|                 | ljZdlbq_kdb_aZgylyby <uqbke_gb_ eh Zjbnfh\              |   |       |
|                 | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| L_fZ            | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            | 1 | 1,2,3 |
| ihdZaZI_evg     | 1   ihdZaZI_evgu nmgdpby _ _ k\hckl\Z b jjZnbd          |   |       |
| nmgdpby         | ljZdlbq_kdb_aZgylyby J_r_gb_ ihdZaZI_evguo nmgdpbc      | 1 |       |
| b jjZnbd        | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| L_fZ Kl_i_g     | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            | 1 | 1,2,3 |
| nmgdpby         | 1   Kl_i_ggZy nmgdpby _ _ k\hckl\Z b jjZnbd             |   |       |
| b jjZnbd        | ljZdlbq_kdb_aZgylyby lhkljh_gb_ jjZnbdh\                | 1 |       |
|                 | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| L_fZ IhgyI      | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            | 1 | 1,2,3 |
| ijhkl_cr_h      | 1   IhgyIb_ ijhkl_cr_h ihdZaZI_evgh h mjZ\g_gby         |   |       |
| ihdZaZI_evg     | ljZdlbq_kdh_aZgylyby ihdZaZI_evguo mjZ\g_gbc            | 2 |       |
| mjZ\g_gby       | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| L_fZ J_r_g      | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            |   | 1,2,3 |
| ijhkl_crbo      | ljZdlbq_kdb_aZgylyby J_r_gb_ ijhkl_crbo ihdZaZI_evgu    | 2 |       |
| ihdZaZI_evg     | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| mjZ\g_gbc       |   |   |       |
| g_jZ\g_kl\      |   |   |       |
| L_fZ J_r_g      | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            |   | 1,2,3 |
| ijhkl_crbo      | ljZdlbq_kdh_aZgylyby ijhkl_crbo eh Zjbnfbq_kdbo mjZ     | 2 |       |
| eh Zjbnfbq_k    | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| mjZ\g_gbc       |   |   |       |
| L_fZ J_r_g      | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            |   | 1,2,3 |
| ijhkl_crbo      | ljZdlbq_kdb_aZgylyby ijhkl_crbo eh Zjbnfbq_kdbo g_jZ    | 2 |       |
| eh Zjbnfbq_k    | KZfhklhyl_evgZy jZ[hIZ                                  |   |       |
| g_jZ\g_kl\      |   |   |       |
| L_fZ            | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ                            | 1 | 1,2,3 |
| lj_h[jZah\Zgb_  | 1   <uiheg_gb_ ij_h[jZah\Zgbc \ujZ_gbc ijbf_g_gb_nh     |   |       |

|                             |  |    |       |
|-----------------------------|--|----|-------|
| Zel_ljZbq_kdbd<br>\ujZ`_gbc | k\hckl\Zfb kl_i_g_c b eh Zjbnfh\ Hij_^ e_gb_h eZkl<br>eh Zjbnfbq_kdh h\ujZ`_gby J_r_gb_ eh Zjbnfbq_kdb |    |       |
|                             | ljZdlbq_kdb_ aZgylby\Zgbo_ljZbq_kdbo \ujZ`_gbc   | 2  |       |
|                             | KZfhklhyl_evgyZy jZ hIZ  |    |       |
| JZa^_e Hkg<br>ljb]hghf_ljbb |  | 38 |       |
| L_fZ JZ^b<br>baf_j_gb_ m]e  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ  | 1  | 2,3   |
| Ljb]hghf_ljbq_              | 1 JZ^bZggh_ baf_j_gb_ m]eh\ b ^m] Khh]ghr_gby f_^<br>f_jZfb m]eh\                                      |    |       |
| nmgdpbc_qbke                | 2 Kbgmk dhkbgmk lZg]_gk b dhIZg]_gk qbkeZ Ljb]hg<br>qbkeh\h]h Zj]mf_glZ agZdb bo agZq_gbc              | 2  |       |
| Zj]mf_glZ agZq_gbc          | ljZdlbq_kdb_ aZgylby_ l_j`h^ ba jZ^bZgghc f_ju m]eZ<br>ljZ^mkghc f_ju m]eZ \ jZ^bZgghc f_ju m]eZ       |    |       |
|                             | KZfhklhyl_evgyZy jZ hIZ  |    |       |
| L_fZ<br>Khh]ghr_gby f       | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ  | 1  | 1,2,3 |
| ljb]hghf_ljbq_k             | 1 HKgh\gu_ ljb]hghf_ljbq_kdb_ lh`^ kl\Z  | 4  |       |
| nmgdpbc_yfb_h^k             | ljZdlbq_kdb_ aZgylby >hdZaZl_evkl\h ljb]hghf_ljbq_kd<br>lh`^ kl\                                       |    |       |
| Zj]mf_glZ                   | KZfhklhyl_evgyZy jZ hIZ  |    |       |
| L_fZ<br>lj_h]jZah\Zgb_      | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ  | 1  | 2,3   |
| ljb]hghf_ljbq_k             | 1 lj_h]jZah\Zgb_ ljb]hghf_ljbq_kdbo nmgdpbc \ ijhba\_^   |    |       |
| nmgdpbc \                   | 2 lj_h]jZah\Zgb_ ijhba\_^_gbc ljb]hghf_ljbq_kdbo nmg   |    |       |
| ijhba\_^_gb                 | 3 l_jbh^bqghklv ljb]hghf_ljbq_kdbo nmgdpbc   |    |       |
| lj_h]jZah\Zgb_              | 4 <uqbke_gb_ agZq_gbc b lh`^_kl\_ggu_ ij_h]jZah\Zg<br>\ujZ`_gbc  | 4  |       |
| ijhba\_^_gbc                | ljZdlbq_kdb_ aZgylby_qbke_gb_ agZq_gbc b lh`^_kl\_gg<br>ljb]hghf_ljbq_kdbo \ujZ`_gbc                   |    |       |
| ljb]hghf_ljbq_k             | KZfhklhyl_evgyZy jZ hIZ  |    |       |
| nmgdpbc \ km                |  |    |       |
| l_jbh^bqghklv               |  |    |       |
| ljb]hghf_ljbq_k             |  |    |       |
| nmgdpbc                     |  |    |       |
| L_fZ K\hckl<br>ljZnbd       | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ  | 1  | 2,3   |
| ljb]hghf_ljbq_k             | 1 Nmgdpbc_sinx __ k\hckl\Z b ljZnbd  | 4  |       |
| nmgdpbc_H]jZ                | 2 Nmgdpbc_cox __ k\hckl\Z b ljZnbd   |    |       |
| ljb]hghf_ljbq_k             | 3 Nmgdpbc_tgx __ k\hckl\Z b ljZnbd   |    |       |
| nmgdpbc                     | 4 Nmgdpbc_ctgx __ k\hckl\Z b ljZnbd  |    |       |
|                             | 5 Nmgdpbc_arcsinx __ k\hckl\Z b ljZnbd   |    |       |
|                             | 6 Nmgdpbc_arccosx __ k\hckl\Z b ljZnbd   |    |       |
|                             | 7 Nmgdpbc_arctgx __ k\hckl\Z b ljZnbd  |    |       |
|                             | 8 Nmgdpbc_arccctgx __ k\hckl\Z b ljZnbd  |    |       |

|  |   |             |     |
|--|---|-------------|-----|
|  | KZfhklhyl_evgZy jZ[h]Z  |             |     |
| L_fZ Ij]hghf_ljbbq-<br>m]Z\g_gbyZ<br>g_jZ\_gkl\Z   | Kh^_j`Zgb_ mqfZlg]h]Z eZ<br>1  Ihgylb_ l]b]hghf_ljbbq_kdbo m]Z\g_gbc b g_jZ\_gkl\<br>2  J_r_gb_l]b]hghf_ljbbq_kdbo m]Z\g_gbc b g_jZ\_gkl\<br>IjZdlbq_kdh_ aZgyIb_ J_r_gb_ l]b]hghf_ljbbq_kdbo m]Z\<br>Dhgl]hevgZy jZ[h]Z<br>KZfhklhyl_evgZy   | 1<br>4<br>2 | 2,3 |
| JZa^ e<br>=?HF?CJBY  |   | 34          |     |
| L_fZ Ij]yfu<br>iehkdhklb \<br>ijhkljZgkl\_   | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ<br>Nhjfmebjh\dZ b ijb\_^_gb_ ^hdZaZI_evkl\ ijbagZdh\ \a<br>b iehkdhkl_c JZkihagZ\Zgb_ gZ q_jl_`Zokom]Z^_eyæZ<br>jZkiheh`_gby ijyfu b iehkdhkl_c Zj]mf_glbjh\Zg<br>Nhjfmebjh\Zgb_ hij_^_e_gbc ijbagZdh\ b k\hckl\ iZjZe<br>iehkdhkl_c ^\m]jZgguo b ebg_cgou m]eh\ <uiheg_g<br>ijyfufb ijyfu b iehkdhklvx f_`^m iehkdhklyfb ih hibkZgb\<br>fh^_eyo l]bf_g_gb_ ijbagZdh\ b k\hckl\ jZkiheh`_gby<br>j_r_gbb aZ^Zq Bah[jZ`_gb_ gZ jbkmgdZo b dhg<br>i_ji_g^bdmeyjh\ b gZdehgguo duøehikZdZk]eb_evjyfu iehk<br>f_`^m ijyfhc b iehkdhklvx b h[hkgh\Zgb_ ihkljh_gby J<br>]_hf_ljbbq_kdbo \_ebqbg Hibku\Zgb_ jZkklhygby hl lhq<br>iehkdhklb f_`^m iehkdhklyfb f_`^m kdj_sb\Zxsb`f<br>ijhba\hevgufb nb]m]Zfb \ ijhkljZgkl\_ | 1           | 2,3 |
|  | 1  :dkbhfukl_j_hf_ljbb b ke_^kl\by ba gbo<br>2  <aZbfgh_ jZkiheh`_gb_ ^\mo ijyfu \ ijhkljZgkl\_   |             |     |
|  | KZfhklhyl_evgZy jZ[h]Z  |             |     |
| L_fZ M]he<br>ijyfu b ijbagZ<br>iZjZee_evghk<br>ijyfhc behkdhk<br>l]bagZd<br>iZjZee_evghk<br>iehkdhkl_c | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ<br>1  M]he f_`^m ijyfu b ijbagZd iZjZee_evghklb ijyfhc b<br>2  l]bagZd iZjZee_evghklb iehkdhkl_c<br>IjZdlbq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_evgZy   | 1<br>2      | 2,3 |
| L_fZ<br>ijh_d]bjh\Zgb_<br>k\hckl\Z<br>l_ji_g^bdmeyjg<br>ijyfhc b iehkdh<br>Hj]h]hgZevgh                | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ<br>1  iZjZee_evgh_ ijh_d]bjh\Zgb_ b _]h k\hckl\Z<br>2  l_ji_g^bdmeyjghkly iehkdhklb Hj]h]hgZevgh_ ijh_d]<br>IjZdlbq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_evgZy jZ[h]Z  | 1<br>2      | 2,3 |

|  |  |             |       |
|--|--|-------------|-------|
| ijh_dlbjh\Zgb  |  |             |       |
| L_fZ<br>l_ji_g^b d m e y<br>gZ d e h g g Z y<br>f^m i j y f h c<br>i e h k d h k l v x<br>> \ m j i Z g g u c m<br>M j h e f^m<br>i e h k d h k l y f b<br>l_ji_g^b d m e y j g<br>l^m i e h k d h k l | Kh^_j`Zgb_mq_[gh]h fZl_jbZeZ<br>1   l_ji_g^b d m e y j b g Z d e h g g Z y M j h e f^m i j y f h c b i e h k<br>2   > \ m j i Z g g u c m j h e M j h e f^m i e h k d h k l y f b l_ji_g^b d r   | 1           | 2,3   |
| JZa^e ≤ d<br>dhj^bgZGu   | IjZdlbq_kdh_aZgyIb_ J_r_gb_aZ^Zq<br>KZfhkIhyI_ e v g Z y j Z [ h i Z   | 2           |       |
| L_fZ < dlh<br>i e h k d h k l b b<br>i j h k l j Z g k l \_<br>> _ c k l \ b y g Z<br>\_ d h j Z f b k<br>a Z ^ Z g g u f b<br>d h h j ^ b g Z I Z f b   | Kh^_j`Zgb_mq_[gh]h fZl_jbZeZ<br>1   < dlh j u g Z i e h k d h k l b b \ i j h k l j Z g k l \_<br>2   > _ c k l \ b y g Z ^ \ d h j Z f b k a Z ^ Z g g u f b d h h j ^ b g Z I Z f b<br>IjZdlbq_kdh_aZgyIb_ J_r_gb_aZ^Zq<br>KZfhkIhyI_evgZy jZ[hIZ  | 1<br>1      | 1,2,3 |
| L_fZ<br>l j y f h m j h e v g u<br>d h h j ^ b g Z l u g<br>i e h k d h k l b b<br>i j h k l j Z g k l \_  | Kh^_j`Zgb_mq_[gh]h fZl_jbZeZ<br>1   l j y f h m j h e v g u _ d h h j ^ b g Z l u g b i e h k d h k l b \_<br>2   > _ c k l \ b y g Z ^ \ d h j Z f b<br>IjZdlbq_kdh_aZgyIb_ J_r_gb_aZ^Zq<br>KZfhkIhyI_evgZy jZ[hIZ  | 1<br>1      | 1,2,3 |
| L_fZ > e b<br>\_ d h j Z M j h e<br>\_ d h j Z f b<br>J Z k k l h y g b _ f<br>l h q d Z f b M j Z \ g<br>i j y f h c M j Z \ g<br>h d j m ` g h k l b _   | Kh^_j`Zgb_mq_[gh]h fZl_jbZeZ<br>1   > e b g Z \_ d h j Z M j h e f^m \_ d h j Z f b J Z k k l h y g b _ f _<br>2   M j Z \ g g b _ i j y f h c M j Z \ g g b _ h d j m ` g h k l b<br>IjZdlbq_kdb_aZgyIby J_r_gb_aZ^Zq<br>KZfhkIhyI_evgZy jZ[hIZ   | 1<br>1      | 1,2,3 |
| JZa^e GZ<br>fZl_fZlbg_kdh<br>ZgZebaZ   |  | 36          |       |
| L_fZ<br>l j h b a \ h ^ g Z y<br>K \ h c k l \ Z<br>i j h b a \ h ^ g h c  | Kh^_j`Zgb_mq_[gh]h fZl_jbZeZ<br>1   l h g y l b _ i j h b a \ h ^ g h c _ _   _ h f _ l j b q _ k d b c b n b a b q _ k d b c<br>2   K \ h c k l \ Z i j h b a \ h ^ g h c<br>IjZdlbq_kdh_aZgyIb_ < u q b k e _ g b _ i j h b a \ h ^ g h c<br>KZfhkIhyI_evgZy jZ[hIZ<br>- k b k l _ f Z l b q _ k d Z y i j h j Z [ h l d Z d h g k i _ d l h \ a Z g y l b c m q _ [ g<br>i h \ h i j h k Z f d i Z j Z ] j Z n Z f j e Z \ Z f m q _ [ g u o i h k h [ b c<br>- h l \ _ l u g Z \ h i j h k u k Z f h d h g l j h e y | 1<br>2<br>2 | 2,3   |

|                          |   |   |     |
|--------------------------|---|---|-----|
|                          | -j_r_gb_ aZ^Zq  |   |     |
| L_fZ<br>ljbba\h^gZy kn   | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                               |   | 2,3 |
| jZaghklb                 | 1   ljbba\h^gZy kmffu jZaghklb ijbba\ ^_gby b qZklgh        | 1 |     |
| ijhba\ ^_gby             | 1   Zdlbq_kdb_ aZgy by <uqbke_gb_ ijbba\h^gZy kmffu         | 1 |     |
| qZklgh h ^\n             | qZklgh h ^\mo nmgdpbc                                       |   |     |
| nmgdpbc                  | KZfhklhyl_ evgZy jZ hIZ                                     |   |     |
| L_fZ<br>ljbba\h^gZy ke   | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                               |   | 2,3 |
| nmgdpbb                  | 1   ljbba\h^gZy keh ghc nmgdpbb                             | 1 |     |
| ijhba\h^gZy              | 2   ljbba\h^gZy kl_i_gghc eh Zjbnfbq_kdhc b ihdZaZI_e       |   |     |
| kl_i_gghc                | 1   Zdlbq_kdb_ aZgy by ^_gb_ ijbba\h^gZy kl_i_gghc eh Z     | 1 |     |
| eh Zjbnfbq_kd            | ihdZaZI_ evghc nmgdpbc                                      |   |     |
| ihdZaZI_ evg             | KZfhklhyl_ evgZy jZ hIZ                                     |   |     |
| nmgdpbc                  |   |   |     |
| L_fZ<br>ljbba\h^gZy <lhj | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                               |   | 2,3 |
| ]_hf_ljbq_kdb            | 1   <lhjZy ijbba\h^gZy _ _ ]_hf_ljbq_kdbc b nbabq_kdbc      | 1 |     |
| nbabq_kdbc k             | 1   Zdlbq_kdh_ aZgy b_ GZoh ^_gb_ \lhjhc ijbba\h^ghc        | 2 |     |
|                          | KZfhklhyl_ evgZy jZ hIZ                                     | 2 |     |
|                          | -kbkl_fZlbq_kdZy ijhjZ[hldZ dhgki_d h\kãZpbyZle evgmcq_e bc |   |     |
|                          | ih \hijhkZf d iZjZ]jZnZf ]eZ\Zf mq_[guo ihkh[bc             |   |     |
|                          | -hl\_lu gZ \hijhku kZfhdhgljhey                             |   |     |
|                          | -j_r_gb_ aZ^Zq  |   |     |
| L_fZ<br>b_m[u\Zgb_ nm    | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                               |   | 2,3 |
| Wdklj_fmfu               | 1   <hajZklZgm ubZgb_ nmgdpbb                               | 1 |     |
| nmgdpbb                  | 2   Wdklj_fmfu nmgdpbb                                      |   |     |
|                          | 1   Zdlbq_kdh_ aZgy b_ GZoh ^_gb_ wdklj_fmth\ nmgdpbb       | 2 |     |
|                          | KZfhklhyl_ evgZy jZ hIZ                                     |   |     |
| L_fZ<br>ijhba\h^ghc      | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                               |   | 2,3 |
| ihkljh_gbx ]jZn          | 1   GZijZ\ e_gby mdehklb ]jZnbdZ nmgdpbb                    | 1 |     |
| nmgdpbc                  | 2   Lhqdb i_ ]_ ]b Z ]jZnbdZ nmgdpbb                        |   |     |
|                          | 1   Zdlbq_kdh_ aZgy b_ GZoh ^_gb_ lhq_d i_ ]_ ]b Z b gZ     | 2 |     |
|                          | nmgdpbb   |   |     |
|                          | KZfhklhyl_ evgZy jZ hIZ                                     | 2 |     |
|                          | -kbkl_fZlbq_kdZy ijhjZ[hldZ dhgki_d h\kãZpbyZle evgmcq_e bc |   |     |
|                          | ih \hijhkZf d iZjZ]jZnZf ]eZ\Zf mq_[guo ihkh[bc             |   |     |
|                          | -hl\_lu gZ \hijhku kZfhdhgljhey                             |   |     |
|                          | -j_r_gb_ aZ^Zq  |   |     |
| L_fZ<br>l_j\hh[jZagZy    | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                               |   | 2,3 |
|                          | 1   lhgy b_ i_ ]_ ]b Z ]jZnbdZ nmgdpbb                      | 1 |     |

|  |   |             |     |
|--|---|-------------|-----|
|  | 2   K\hckl\Z i_j\hh Zaghc<br>ljZdlbq_kdh_aZgylb_GZoh^_gb_i_j\hh Zaghc<br>KZfhklhyl_evGZy jZ hIZ   | 2           |     |
| G_bgl_jjZe^e_gg<br>k\hckl\Z  | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ<br>1   Ihgylb_g_hij^_e_ggh]h bgl_ jZeZ<br>2   K\hckl\Z g_hij^_e_ggh]h bgl_ jZeZ<br>3   F_lh^u \uqbke_gby g_hij^_e_ggh]h bgl_ jZeZ<br>ljZdlbq_kdb_aZgylby GZoh^_gb_g_hij^_e_ggh]h bg<br>KZfhklhyl_evGZy jZ hIZ  | 1<br>2      | 2,3 |
| Hij^_e_ggu<br>bgl_ jZe^e_gg<br>k\hckl\Z  | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ<br>1   Ihgylb_hij^_e_ggh]hZeZ<br>2   K\hckl\Z hij^_e_ggh]h bgl_ jZeZ<br>3   F_lh^u \uqbke_gby hij^_e_ggh]h bgl_ jZeZ<br>ljZdlbq_kdb_aZgylby <uqbke_gb_hij^_e_ggh]h bgl_ <br>KZfhklhyl_evGZy jZ hIZ<br>-kbkl_fZlbq_kdZy ijhjZ[hldZ dhgki_dlh\kaZgylbc evgmcq_e]bc<br>ih \hijhkZf d iZjZ]jZnZf ]eZ\Zf mq_[guo ikh[bc<br>-hl\_lu gZ \hijhku kZfhdhgljhey<br>-j_r_gb_aZ^Zq | 1<br>2<br>2 | 2,3 |
| L_fZ<br><uqbke_gb<br>iehsZ^_c_iehK<br>nb]mj k ihfhs<br>hij^_e_ggh<br>bgl_ jZeZ | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ<br>1   <uqbke_gb_iehsZ^_c_iehkdbonb]mj k ihfhsvx hij^_e_ggh<br>ljZdlbq_kdh_aZgylb_<uqbke_gb_iehsZ^_c_iehkdbon<br>bgl_ jZeZ<br>KZfhklhyl_evGZy jZ hIZ   | 1<br>2      | 2,3 |
| >bnn_j_gpbZe<br>mjZ\g_gby i_j<br>ihjy^dZ                                       | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ<br>1   >bnn_j_gpbZevgu_mjZ\g_gby i_j\h]h ihjy^dZ<br>ljZdlbq_kdh_aZgylb_J_r_gb^bnn_j_gpbZevguo mjZ\<br>KZfhklhyl_evGZy jZ hIZ   | 1<br>2      | 2,3 |
| JZa^e<br>Fgh]h]jZggbd  |   | 8           |     |
| L_fZ<br>=_hf_ljbq_kdh<br>]h ih\_joghk<br>Fgh]h]jZggbd<br>ljbafZ                | Kh^_j`Zgb_mq_[gh]h fZI_jbZeZ<br>1   =_hf_ljbq_kdh_l_eh_]h ih\_joghklv Fgh]h]jZggbdb<br>2   ljbafZ<br>ljZdlbq_kdh_aZgylb_J_r_gb_aZ^Zq<br>KZfhklhyl_evGZy jZ hIZ<br>-kbkl_fZlbq_kdZy ijhjZ[hldZ dhgki_dlh\ aZgylbc mq_[g<br>ih \hijhkZf d iZjZ]jZnZf ]eZ\Zf mq_[guo ikh[bc  | 1<br>2<br>2 | 2,3 |

|  |   |   |       |
|--|---|---|-------|
|  | - hl\_lu gZ \hijhku kZfhdhgljhey<br>-j_r_gb_ aZ^Zq            |   |       |
| L_fZ<br>IzjZee_e_ibi<br>IbjZfb^AZ  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                                 | 1 | 2,3   |
|  | 1  IzjZee_e_ibi_^   |   |       |
|  | 2  IbjZfb^AZ  | 2 |       |
|  | IjZdibq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_ evgZy jZ hIZ |   |       |
| JZa^_e<br>ih\_joghklb<br>IjZs_gby  |   | 6 |       |
| L_fZ<br>Ih\_joghklv<br>IjZs_gby<br>IjZs_gby PbeK<br>DhgmK                  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                                 | 1 | 2,3   |
|  | 1  Ih\_joghklv IjZs_gby L_eh IjZs_gby                         |   |       |
|  | 2  Pbebg^j DhgmK  | 4 |       |
|  | IjZdibq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_ evgZy jZ hIZ |   |       |
| L_fZ<br>rZj Kn_  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                                 | 1 | 1,2,3 |
|  | 1  Kn_jZ b rZj  | 1 |       |
|  | IjZdibq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_ evgZy jZ hIZ |   |       |
| JZa^_e<br>hf_Ijbb  |   | 6 |       |
| L_fZ<br>I_hf_Ijbq_kdh H t<br>H t_f Ijbafu<br>IzjZee_e_ibi                  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                                 | 1 | 2,3   |
|  | 1  H t_f I_hf_Ijbq_kdh h I_eZ                                 |   |       |
|  | 2  H t_f Ijbafu IzjZee_e_ibi_^                                | 1 |       |
|  | IjZdibq_kdh_ aZgyIb_aZ^Zq_gb_<br>KZfhklhyl_ evgZy jZ hIZ      |   |       |
| L_fZ<br>IbjZfb^u pbeb  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                                 | 1 | 2,3   |
|  | 1  H t_f IbjZfb^u   |   |       |
|  | 2  H t_f pbebg^jZ   | 1 |       |
|  | IjZdibq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_ evgZy jZ hIZ |   |       |
| L_fZ<br>dhgmKZjZ   | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                                 | 1 | 2,3   |
|  | 1  H t_f dhgmKZ   |   |       |
|  | 2  H t_f rZjZ   |   |       |
|  | IjZdibq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_ evgZy jZ hIZ |   |       |
| L_fZ<br>Ih\_joghklb<br>I_hf_Ijbq_kdb<br>IehsZ^v ih\_jog<br>Ijbafu IbjZfb^A | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                                 | 1 | 2,3   |
|  | 1  IehsZ^v ih\_joghklb I_hf_Ijbq_kdb I_e                      |   |       |
|  | 2  IehsZ^v ih\_joghklb Ijbafu IbjZfb^u                        | 1 |       |
|  | IjZdibq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq<br>KZfhklhyl_ evgZy jZ hIZ |   |       |

|  |  |    |     |
|--|--|----|-----|
| L_fZ ih\_joghklb pbebg^jZ dhg rZjZ                                       | Kh^_j`Zgbq_[gh]h fZI_jbZeZ                   |    | 2,3 |
|  | 1   lehsZ^v ih\_joghklb pbebg^jZ             |    |     |
|  | 2   lehsZ^v ih\_joghklb dhgmkZ               |    |     |
|  | 3   lehsZ^v ih\_joghklb rZjZ                 |    |     |
|  | IjZdlbq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq           | 1  |     |
| JZa^_e Dhf[bgZlhjbd We_f_glu_l_hj \_jhyIghkl_c fZI_fZI_bq_kd kIZIbklb_db | KZfhklhyl_ evgZy jZ[hIZ                      | 12 |     |
|  |  |    |     |
| L_fZ ihgylby dhf[bgZlhjbd  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                |    | 2,3 |
|  | 1   IhgyIb_ dhf[bgZlhjbd                     | 1  |     |
|  | 2   We_f_glu dhf[bgZlhjbd                    |    |     |
|  | IjZdlbq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq           | 1  |     |
| L_fZ KemaZcg hiul_b_kemaZc kh[ulb_                                       | KZfhklhyl_ evgZy jZ[hIZ                      |    | 2,3 |
|  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                |    |     |
|  | 1   Ij^f_I_hjbb\_jhyIghkl_c hkgg\gu_ ihgyIby | 1  |     |
|  | 2   <b^u kemaZcguo kh[ulbc                   |    |     |
| <_jhyIghkklv kh[ulby   | IjZdlbq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq           | 2  | 2,3 |
|  | KZfhklhyl_ evgZy jZ[hIZ                      |    |     |
|  | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                |    |     |
|  | 1   <_jhyIghklv kh[ulby                      | 1  |     |
| Hi_jZpbb_gZ kh[ulbyfb  | 2   Hi_jZpbb_gZ^ kh[ulbyfb                   |    | 2,3 |
|  | IjZdlbq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq           | 2  |     |
|  | KZfhklhyl_ evgZy jZ[hIZ                      |    |     |
|  |  |    |     |
| JZa^_e d_wdaZf_gm  |  | 2  |     |
| L_fZ kl_i_gb eh]Zj   | Kh^_j`Zgb_ mq_[gh]h fZI_jbZeZ                |    | 2,3 |
|  | 1   K\hckI\Z dhjg_c b kl_i_g_c               | 1  |     |
|  | 2   K\hckI\Z eh]Zjbnfh\                      |    |     |
|  | IjZdlbq_kdh_ aZgyIb_ J_r_gb_ aZ^Zq           |    |     |
| L_fZ g_jZ\_gkl\  | KZfhklhyl_ evgZy jZ[hIZ                      |    | 2,3 |
|  | Kh^_j`Zgbq_[gh]h fZI_jbZeZ                   |    |     |
|  | 1   IjZ\beZ j_r_gby mIZ\g_gbc b g_jZ\_gkl\   |    |     |
|  | 2   <b^u mIZ\g_gbc b g_jZ\_gkl\              |    |     |
| IjZdlbq_kdb_ aZgyIby J_r_gb_ aZ^Zq                                       |  | 2  |     |
|  | KZfhklhyl_ evgZy jZ[hIZ                      |    |     |



|                        |                                  |     |     |
|------------------------|----------------------------------|-----|-----|
| L_fZ<br>]_hf_ljbq_kdBo | Kh^_j`Zgb_mq_[gh]h fZl_jbZeZ     | 1   | 2,3 |
|                        | 1   Baf_i_gby \   hf_ljbb        |     |     |
|                        | IjZdlbq_kdh_aZgyIb_ J_r_gb_aZ^Zq | 2   |     |
|                        | DhgljhevgZy jZ[hIZ               | 2   |     |
|                        | KZfhklhyl_evghZy jZ[hIZ          |     |     |
|                        | <K?=H                            | 156 |     |

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>ey oZjZdl_jbklbdb mjh\gy hk\h_gbyb kmg_e\gn\hk\Zke_jbZeZb_h[hagZq_gby
1±hagZdhfbl_evduc magZ\Zgb_jZg__ bamq_gguo h[t_dlh\ k\hckl\
2±j_ijh^mdlb\guc \uiheg_gb_^_yl_evghklb ih h[jZapm bgkljmdpbb beb ih^ jmdh\h^kl\hf
3±ijh^mdlb\guc ieZgbjh\Zgb_ b kZfhklhyl_evgh_ \uiheg_gb_^_yl_evghklb j_r_gb_ ijh[e_fgguo aZ^Zq
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MKEH<BY J?:EBA:MQ?;GHC >BKPBIEBGU

3.1. >ey j\_ZebaiZpbjZffu mq\_[ghkcpbiebgu ij\_^mkfhIj\_gu ke\_
ki\_pbZevgu\_ ihf\_s\_gby \ khhl\\_lkl\bb k N=HK b IHHI
-dZ[bg\_l hkgZs\_gguc h[mjq\_^[h]Zg bh kZ^hkqZ^ey h[mqZxsb
b ij\_ih^Z\ZI\_ey deZkkgZy ^hk dZ ;glZ]egyb^gukdbZl\_kjib\_ZkLZ h[
bgl\_jZdlb\gZy ^hk dZ ijh\_dlhj dhfivxl\_j
- dZ[bg\_l ^ey kZfhklhyl\_evghc jZ[hlu klm^\_glh\

BgnhjfZpbhggh\_ h[\_ki\_q\_gb\_ h[mq\_gby
>ey j\_ZebaZpbb ijh]jZffu [b[ebhl\_qguc nhg^ h[jZah\ZI\_evgh
i\_qZlgwe\_dljhgguc\_ h[jZah\ZI\_evgh]h kmjku j\_dhf\_g
^ey bkihevah\Zgby \ h[jZah\ZI\_evghf ijhp\_kk\_
Hkgh\gZy ebl\_jZlmjZ
;h]hfheh\ <GFZI\_fZlbdZ mq\_[gbd ^ey kj\_^g\_]h ijh
h[jZah\Zgby G < ;h]hfheh\ l^2 B\_KZ^hcei\_g\_djZ^2 b ^h
Fhk d\Z Ba^ZI\_evkl\h XjZcl k^2 l\_jhn\_kkbhgZevgh\_ h[jZah
^2 ISBN 9785-534078787. ^2 L\_dkl we\_dljhgguc H[jZah\ZI\_evgh]h
XjZcl >kZcl@

;h]hfheh\ G < ljZdlbq\_kdb\_ aZgyIby ih fZI\_fZlbd\_ \
ihkh[b\_ ^ey kj\_^g\_]h ijhn\_kkbhgZevgh]h h[jZah\Zgby
ba^ i\_j\_jZ[ B Fhk d\Z Ba^ZI\_evkl\h XjZcl k^2
l\_jhn\_kkbhgZevgh\_ h[jZah\Zgby ISBN 9785-534087994. ^2 L\_dkl
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=jb]hjv\_\ K = FZI\_fZlbdZ mq\_[gbd ^ey bkihevah\Zg
h[jZah\ZI\_evgh]h mqj\_`^\_gbc j\_hZ^baevgsbo ihh]jZffu kj\_^
ijhn\_kkbhgZevgh]h h[jZah\Zgby K = =jb]hjv\_\ bK^ <kl\_B\h
Fhk d\Z Ba^ZI\_evkdbc p\_glj ©:dZ^\_k^ ISBN 9785-446892488. ±
URL: <https://academiamoscow.ru/catalogue/5395/477592/>

Ih ih\ : F FZI\_fZlbdZ ^ey wd hghfbklh\ < q QZklv
^ey kj\_^g\_]h ijhn\_kkbhgZevgh]h h[jZah\Zgby :^2 E\_lh ih
ba^ i\_j\_jZ[ B Fhk d\Z Ba^ZI\_evkl\h XjZcl ^2 k^2
l\_jhn\_kkbhgZevgh\_ h[jZah\Zgby ISBN 9785-534094589. ^2 L\_dkl
we\_dljhgguc H[jZah\ZI\_evgh]h ieZlnhjfZ XjZcl >kZcl@

>hihegbl\_evgu\_ bkw b g d b j h g g u\_ ba^Zgby
;ZrfZdh\ F : FZI\_fZlbdZ gZ^jZ^fZ fZI\_fZlbdq\_kdh]h
]\_hf\_ljby F B ;Z-rFZdhBa^ZI\_evkdbc p\_glj ©:dZ^\_k^ ISBN 9785-446892488.- L\_dkl g\_ihkj\_^kl\\_gguc
;h]hfheh\ G < FZI\_fZlbdZ mq\_[gbd ^ey ijbdeZ^gh]
;h]hfheh\ lZBhck\_gd^5\_ ba^ i\_j\_jZ[ ^2 Bhk d\Z Ba^ZI\_evk
XjZcl ^2 k^2 ;ZdZeZ\j ljbdeZ^gh]h ISBN 9785-534070019.
^2 L\_dkl we\_dljhgguc H[jZah\ZI\_evgh]h ieZlnhjfZ XjZcl
=fmjfZg < ? L\_hjby \\_jhyIghk dZcy bklfZl b kZl b Z\_kmq\_[g
ijbdeZ^gh]h [ZdZeZ\jbZIZ ≈12? b^m jfZgd\Z Ba^ZI\_evk
XjZcl ^2 k^2 ;ZdZeZ\j ljbdeZ^gh]h ISBN 9785-991634618.
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Dj\_f\_ G R Ebg\_cgZy Ze]\_jZ mq\_[gbd b ijZdlbdfm
ki\_pbZebi\_IZ ih^ j\_^Zdpb\_c^2 G\_ RbaDj\_fb\_kZ] ^2 bFhk d\Z

Ba^ZI\_evkl\h XjZcl k<sup>2</sup> ;ZdZeZ\j b ki\_p ISBN 9785-534-085471. <sup>2</sup> L\_dkl we\_dljhguc H[jZah\ZI\_evZy ieZlnhjfZ XjZcl >kZ  
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 ijhn\_kkbhgZevgh]h h[jZah\Zgby G R Dj\_f\_j F G Njb  
 j\_^Zdpb\_c G R <sup>2</sup>Dj\_f\_bjZ^ bkij<sup>2</sup> Fhkd\Z Ba^ZI\_evkl\h XjZcl  
 2019. <sup>2</sup> k<sup>2</sup> ljh\_kkbhgZevgh\_h[jZah\ZI\_evZy ieZlnhjfZ XjZcl >kZcl @  
 L\_dkl we\_dljhguc H[jZah\ZI\_evZy ieZlnhjfZ XjZcl >kZ  
 Dj\_f\_j G R FZI\_fZlbdZ ^ey dhee\_`\_c mq\_[gh\_ i  
 ijhn\_kkbhgZevgh]h h[jZah\Zgby Dj\_f\_j H = DhgklZglbgh  
 Njb^fZg ih^ j\_^Zdpb\_c G <sup>2</sup>R0\_Djb\_d^jZ i\_j\_jZ[<sup>2</sup> Fhkd\Z  
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 Hjih\Z B < Ebg\_cgZy Ze]\_[jZ b ZgZebIbq\_kdZy ]\_h  
 mq\_[gbd b ijZdlbdfm ^ey \mah\ B < Hjih\Z <<sup>2</sup>< M]  
 Fhkd\Z Ba^ZI\_evkl\h XjZcl k<sup>2</sup> <ukr\_\_ h[jZah\ZI\_evZy ieZlnhjfZ XjZcl >kZcl @  
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 K Nbehgh\Z Fhkd\Z Ba^ZI\_evkl\h XjZcl k<sup>2</sup> ;ZdZeZ\j  
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 KibjbgZ F K >bkdj\_lgZy fZI\_fZlbdZ mq\_[gbd ^ey klm  
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 g\_ihkj\_^kl\\_gguc  
 BgnhjfZpbhggu\_ lj\_gbjh\hggu\_ b dhglijhggu\_fZ  
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 ?^bgZy dhe\_e\_njpbubo ph[jZah\ZI\_evZy ieZlnhjfZ XjZcl >kZcl @ URL:www.jkshool  
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 l\_klbjh\Zgby Z lZd`\_ \uiheg\_gby h[mqZxsfbfky bg^b\^mZ  
 bkke\_^h\Zgbc

|   |   |
|---|---|
| J_amevlZlu h[mq_ hkh_ggu_ mf_gby m agZgby   | Nhjfub f_lh^u dhgljhey b hq j_amevlZih\ h[mq_gby  |
| Hk\h_ggu_ agZgby  |   |
| \uihegylv Zjbnf_l ^_ckl\by gZ^ qbkeZf mklgu_ b ibkvf_ggu_ gZoh^blv ijb[eb`_gguc \_ebqbg b ih]j_ | L_dmsbc dhgljhev ljZdlbq_kdb_ aZgylby ih l_f_ >hfZrgyy jZ[hIZ ih l_fZf Blh]h\uc dhgljhev L_kl |

|   |  |
|---|--|
| \uqbke_gbcZ[khexlgZy<br>hlgkbl_evgZy<br>qbkeh\u_ \ujZ`_gby  |  |
| gZoh^blv agZq_gby dh<br>eh]ZjbnfZ ljb]hghf_<br>\ujZ`_gbc gZ hkgh<br>hij_^_e_gby bkihev<br>g_h[oh^bfhklb bgkljmf<br>kj_^kl\Z iheva<br>ijb[eb`_gghc hp_gdl<br>ijZdlbq_kdbo jZkq_lZc | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl |
| \uihegylv ij_h[jZ<br>\ujZ`_gbc ijbfgyy<br>k\yaZggu_ kh k\<br>kl_i_g_c eh]Z<br>ljb]hghf_ljbq_kdbo nm   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl |
| \uqbkeylv agZq_gb_<br>aZ^Zgghfm agZq_gbx<br>ijb jZaebqguo kihkh[<br>nmgdpbb   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl    |
| hij_^_eylv hkgh\gu_<br>qbkeh d nmgd<br>beexkljbjh\Zlv bo gZ ]   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl    |
| kljhbiv ]jZnbdb ba<br>nmgdpbc beexkljbjh<br>]jZnbdm k\hckl\Z we<br>nmgdpbc  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl    |
| bkihevah\Zlv ihgylb_<br>^ey hibkZgby b<br>aZ\bkbfhkl_c \_ebqbg  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl    |
| gZoh^blv ijhba<br>we_f_glZjguo nmgdpbb  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl |
| bkihevah\Zlv ijhba\h<br>bamq_gby k\hmgldpbc<br>ihkljh_gby ]jZnbdbh\   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl |
| ijbf_gylv ijhba\h^gm<br>ijh\_^_gby ijb[eb<br>\uqbke_gbc j_rZlv<br>ijbdeZ^gh]h oZjZdl<br>gZoh`^_gb_ gZb[hev<br>gZbf_gvr_]h agZq_gby  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_f<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl   |
| \uqbkeylv \ ijhkl_crbc  | L_dmsbc dhgljhev   |

|  |   |
|--|---|
| iehsZ^b b h[t_fu<br>bkihevah\Zgb_f hij_<br>bgl_]jZeZ   | ljZdlbq_kdb_ aZgylby ih l_f<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl                        |
| j_rZlv jZpbhgZ<br>ihdZaZl_evgu_ eh]Zj<br>ljb]hghf_ljbq_kdb_ r<br>k\h^ysb_ky d ebg_<br>d\Z^jZlguf Z lZd`_ Z<br>g_jZ\_gkklk_b_fu | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl  |
| bkihevah\Zlv ]jZnbq_<br>j_r_gby mjZ\g_gbc b g  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl     |
| bah[jZ`Zlv gZ dhh<br>iehkdhklb j_r_gby n<br>g_jZ\_gkl\ b kbkl_f<br>g_ba\_klgufb  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_f<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl    |
| khklZ\eylv b j_rZlv m<br>g_jZ\_gkl\Z k\ya<br>g_ba\_klgu_ \_ebq<br>l_dklh\uo \ lhf<br>ijbdeZ^guo aZ^ZqZo                        | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZ<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl   |
| j_rZlv ijhkl_cr<br>dhf[bgZlhjgu_ aZ^Zqf<br>i_j_[hjZ Z lZd`<br>bkihevah\Zgb_f b<br>nhjfme                                       | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_f<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl    |
| \uqbkeylv \ ijhkl_crbc<br>\_jhylghklb kh[ulbkghe<br>ih^kq_lZ qbkeZ bkoh^   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_f<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl    |
| jZkihagZ\Zlv gZ q_<br>fh^_eyo ijhkljZgk<br>nhjfu khhlghkblv lj<br>h[t_dlu k bo hibf<br>bah[jZ`_gbyfb                           | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>L_kl  |
| hibku\Zlv \aZbfg_h_jZ<br>ijyfu b iehkdhkl<br>ijhkljZgkl\Zj]mf_glbjh<br>k\hb km`^_gby hf<br>jZkiheh`_gbb                        | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_f<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>WdaZf_g |
| ZgZebabjh\Zlv \ ij<br>kemqZyo \aZbfg_h_jZ<br>h[t_dlh\ \ ijhkljZgkl\<br>_   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>WdaZf_g     |
| bah[jZ`Zlv hk<br>fgh]h]jZggbdb b djm<br>\uihegylv q_jl_`b ih   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZf<br>>hfZrgyy jZ[hIZ ih 0.1,10Zf11.1,11.2                   |

|  |  |
|--|--|
| aZ^Zq  | Blh]h\uc dhgljhev<br>WdaZf_g   |
| kljhbiv ijhkl_crb_ k<br>dm,[Zbaf,uibjZfb^u   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih l_fZ<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>WdaZf_g   |
| j_rZlv ieZgbf_ljbq_k<br>ijhkl_crb kl_j_hf_ljbc<br>aZ^Zqb gZ gZ<br>]_hf_ljbq_kdbo \_ebc<br>m]eh\ iehsZ^_c h[t_  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih<br>l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>WdaZf_g   |
| bkihevah\Zlv ijb<br>kl_j_hf_ljbq_kdbo<br>ieZgbf_ljbq_kdb_ n<br>f_lh^u  | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih<br>l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>WdaZf_g   |
| ijh\h^blv ^hdZaZ<br>jZkkm^_^_gby \ oh^_ j_   | L_dmsbc dhgljhev<br>ljZdlbq_kdb_ aZgylby ih<br>l_fZf<br>>hfZrgyy jZ[hIZ ih l_fZf<br>Blh]h\uc dhgljhev<br>WdaZf_g   |
| Mk\h_ggu_ agZgby   |  |
| agZq_gb_ fZI_fZlbq_<br>^ey j_r_gby ahZaZhdZx<br>\ l_hjbb b ijZdlbd_ t<br>lh ` _ \j_fy h]jZgbc<br>ijbf_g_gby fZI_fZl<br>f_lh^h\ d ZgZebam b t<br>ijhp_kkh\ b yle_gbc \<br>h[s_kl\ | L_dmsbc dhgljhev<br>Hijhk mklguc ibkvf_gguc l_<br>l_fZf<br>.4,2.5,2.6,2.7,2.8,<br>3.1,3.2,3.3,4.1,4.2,4.3,4.4,4.5,5.1,5.2,5.3,5.4,<br>6.1,6.2,6.3,6.4,6.5,7.1,7.2,7.3,7.4,8.1,8.2,8.3,9.1<br>9.2,9.3,9.4,9.5,9.6,9.7,9.8,9.9,9.10,9.11,9.12,<br>10.1,10.2,11.1,11.2,12.1,12.2,12.3,12.4,12.5,13.<br>14.1,14.2,14.3,14.4,14.5<br>Blh]h\udhgljhev<br>WdaZf_g |
| agZq_gb_ ijZdlbdb b<br>\hagbdZxsbo \ kZfhc<br>^ey nhjfbjh\Zgby b<br>fZI_fZlbq_kdhc gZmd<br>jZa\bly ihgylby qbke<br>fZI_fZlbq_kdh]h<br>\hagbdgh\_gby b<br>]_hf_ljbb               | L_dmsbc dhgljhev<br>Hijhkkmguc ibkvf_gguc l_klh<br>l_fZf<br>3.1,3.2,3.3,4.1,4.2,4.3,4.4,4.5,5.1,5.2,5.3,5.4,<br>6.1,6.2,6.3,6.4,6.5,7.1,7.2,7.3,7.4,8.1,8.2,8.3,9.1<br>9.2,9.3,9.4,9.5,9.6,9.7,9.8,9.9,9.10,9.11,9.12,<br>10.1,10.2,11.1,11.2,12.1,12.2,12.3,12.4,12.5,13.<br>14.1,14.2,14.3,14.4,14.5<br>Blh]h\uc dhgljhev<br>WdaZf_g                     |
| mgb\_jkZevguc oZjZd<br>eh]bdb fZI_fZl<br>jZkkm^_^_gbc bo ijbf_<br>\k_o h[eZklyo q_ e<br>^_yl_evghklb   | L_dmsbc dhgljhev<br>Hijhk mguc ibkvf_gguc l_klh<br>l_fZf<br>3.1,3.2,3.3,4.1,4.2,4.3,4.4,4.5,5.1,5.2,5.3,5.4,<br>6.1,6.2,6.3,6.4,6.5,7.1,7.2,7.3,7.4,8.1,8.2,8.3,9.1<br>9.2,9.3,9.4,9.5,9.6,9.7,9.8,9.9,9.10,9.11,9.12,   |

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|  |          | 10.1,10.2,11.1,11.2,12.1,12.2,12.3,12.4,12.5,13.1,<br>14.1,14.2,14.3,14.4,14.5<br>Blh]h\uc dhgljhev<br>WdaZf_g |
| \_jhylghklguc<br>jZaebqguo<br>hdjm`Zxs_]h fbjZ | o<br>ijh | L_dmsbc dhgljhev<br>Hijhk mklguc ibkvf_gguc l_kl<br>14.1,14.2,14.3,14.4,14.5<br>Blh]h\uc dhgljhev<br>WdaZf_g   |

:>:IL:PB Y J:;HQ?C IJH=J:FFU IJB H;MQ?GBB EBP K  
H=J:GBQ?GGUFB <HAFH@GHKLYFB A>HJH<VY

:^ZilZpby jZ[hq\_c ijh]jZffu ^hM p b i e f g Z u \_ f Z l p d Z ^ b l k y i j b  
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ki\_pbZebklh\ k a \ ^ g Z ] h h ki\_pbZevghklb>baZcg ih h\j p k e y b  
h[\_ki\_q\_gby ijZ\Z bg\Zeb^h\ b ebp k h]jZgbq\_ggufb \haf  
ihemq\_gb\_ ijhn\_kkbhgZevgh]h h[jZah\Zgby kha^Zgby g\_l  
kj^g\_]h ijhn\_kkbhgZevgh]h h [ j Z a h Z Z g Z y ^ m k r e [ \_ k i \_ q \_ g b y ^ h  
h[mqZxsbfby bg\Zeb^Zfb b ebpZfb k h]jZgbq\_ggufb \ha  
j\_amevlZlh\ nhjfbjh\Zgby ijZdlbq\_kdh]h hiulZ

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h[mqZxsboky k jZaebqguo f b d b g Z f b a h j j h \ v y  
HkgZs\_gb\_ dZ[bg\_lZ ^\_ehijhba\h^kl\Z b j\_`bfZ k\_dj\_lgh  
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m^Ze\_gguo h[t\_dlh\ ijb ihfhsb \b^\_hm\ \_ebqbl\_e\_c ^ey m  
Bkihevah\Zgb\_ ;jZce\_\kdhc dhfivxl\_jghc l\_ogbdb we\_dljh  
g\_\bamZevgh]mi Z ^ d bgnhjZpbb l\_ogbq\_k d b o j \_ k j Z ^ k l m i j b [ g Z c  
bgnhjZpbb \ ^hklmiguo nhjZo

>ey h[mqZxsboky k gZjmr^v b j Z i h e i v g g h h Z i i Z j Z I Z d Z [ b g \_ l  
[ulv h[hjm^h\Zg i\_j\_ ^\b`gufb j\_]m e b j m \_ f u f b i Z j l Z f b k b k l h q g l  
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h[mqZxsboky ih Z^Zilbjh\Zggghc h[jZah\ZI\_evgghc ijh]jZff\_ k  
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BgnhjZpbggh\_ b f\_lh^bq\_kdh\_ h[\_ki\_q\_gb\_ h[mqZxsbo  
>hklmi d bgnhjZpbgghguf n b d b k e d h h ] j Z k m j k Z f m d Z a Z g g u  
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\hafh`ghklyfb a^hjh\vy

>ey ebp k gZjmr\_gbyfb aj\_gby g\_ f\_g\_\_ h^gh]h \b^Z  
- \ igZlghc nhjf\_ m\ \_ebq\_gguf rjbnlhf  
- \ nhjf\_ we\_dljhggh]h ^hdmf\_glZ  
- \ nhjf\_ Zm^bhnZceZ  
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>ey ebp k gZjmr_gbyfb kemoZ
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>ey ebp k gZjmr_gb^fb]Zihjggh]ZIZiiZ_ f_g__ ^\mo \b^h
-\ i_qZlghc nhjf_
-\ nhjf_ we_dljhggh]h ^hdmf_gIZ
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>ey ebp k -gkplghq_kdbfb gZjmr_gbyfb jZkkljhckl\h
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- bkihevah\Zgb_ l_dklZ k beexkljZpbyfb
- fmevlbf_^bcgu_ fZI_jbZeu
<h \j_fy kZfhklhyl_evghc ih^]hlh\db h[mqZxsb_ky bg
h]jZgbq_ggufb \hafh`ghklyfb a^hjh\vy ^he`gu [ulv h[_ki_q_
Bgl_jg_l
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Nhjfub f\_lh^u dhgljhey b hp\_gdb j\_amevlZlh\ h[mq\_gby

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MdZaZgg_ \ ijZffujm]hjfub f_lh^u dhgljhey ijh\h^ylky
h]jZgbq_gby a^hjh\vy h[mqZxsboky P_evx l_dms_]h dhgljhe
\uy\e_gb_ aZljm^g_gbc b hklIZ\Zgby h[mqZxs_]hky k h]jZg
a^hjh\vy b \g_k_gb_ dhjj_dlb\h\evghc]Zgm^_yl
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NhjfZ ijhf_`mlhqghc Zll_klZpbb mklZgZ\eb\Z_lky k mq_
ikbohnbabq_kdbo hkh[_gghkl_c h[mqZxsboky bg\Zeb^h\ b
\hafh`ghklyfb a^hjh\vy mklgh ibkvf_ggh gZ [mfZ]_ ibkvf_
nhjf_ l_kljbh\Zgby b l
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ljb ijh\_^_gbb ijhf_`mlhqghc Zll_klZpbb h[mqZxs_fmky
\j_fy gZ ih^]hlh\dm d hl\_lm m\_ebq_ggh_ g_ [he__ q_f \lj
ih^]hlh\db d hl\_lm h[mqZxsbfky g_ bf_xsbf h]jZgbq_gbc \k
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6.EBKL I?J?ML<?J@>?GBY :DLM:EBA:PBB J:;HQ?C IJH=J  
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bklhqgbdh\ ih l\_f\_ beb l\_fZf kj\_^kl\ ijhf\_`mlhqgh]h dhgljhey k r  
ijh]jZffu KZfh kh^\_j`Zgb\_ baf\_g\_gbc hnhjfey\_lky ijbeh`bgf\_f ih k