F h k d \ Z

2020

1.

Rdhevguc b fmgbppbiZevgku_cjhwkZicukdhc hebfibZ^uh\rdh
ihbklhjbb ijh\h^bkkhyhl_lkl\bb k ZdlmZevguf lhjy^dhf ijh_^_
hij_^_ey_fuf lhjy^dhf ijhk_j^h_kgkboyckdhc hebfibZ^u rdhevzgbdh\
ijbdZahf Fbgbkl_jkl\Z h[jZah\Zgby b gZmdb Jhkkbckdhc N_^
‹ .]k baf_g_ghbgfkguf ljbdZahf Fbgbkl_jkl\Z h[jZah\Zgb
Jhkkbckdhc N_^_jZpbb hl. ‹ 2442;jZ_bdZah]f Fbgbkl_jkl\Z h[jZah
gZmdb Jhkkbckdhc N_^_jZpbb hl ‹ 1488;dZ_bjdZahf Fbgbkl_jkl
h[jZah\Zgby b gZmdb Jhkkbckdhcghbj^y_jZpbb 1435; ljbdZahf
Fbgbkl_jkl\Z ijhk_s_gby Jhkkbckdhc N_^_jZpbb hl fZjlZ
ljb hj]ZgbaZpbb ijh_^_gby rdhevgh]h b fmkgbjhbkZbcvkdhmd
hebfibZ^u rdhevgb/dh\mq_[gh]hZ g_h[oh^bfh mqblu\Zlvb_lhkl
=eZ\gh]h]hkm^Zjkl_ggh]h kZgblZjgh]h \jZqZ Jhkkbc]k‹dhc N
©H[ml_j`^_gbb -kwZibl_Zbghheh]bq_kdbo ijZ\be K-20
©KZgbl-Zwigbh^_fbheh]bq_kdb_ lj_[h\Zgby d mkljhckl\m kh^_j
jZ[hlu h[jZa_kevZguo hj]ZgbaZpbc b ^jm]bo h[t_dlh\ khpbZevgh
^_l_c b fzkeh\^ mkeh\byo jZkijhkljZg_gby gh\hc dhjhgZ\b-jmkgh
ªaZj_]bkljbjh\Zg]‹
lhkdhevdm \ khhl_lkl\bb k mdZaZgguf lhkZljZygh\e]_gb_f
aZij_sZ_lky ijh_^_gb_ fZkkh\uo f_jhijbylbc imgdl
hj]dhfbl_lZf g_h[oh^bfh ij_^mkfhlj_lv \hafh`ghklv ijh_^_
fmgbppbiZevgh]h wlZih\ k bkihevah\Zgbd_fffmbggbmdZ]pZbmhghgg
l_ogheh]bc
Rdhevguc wl_jhkkbckdhc hebfibZ^u rdhevgbdh\ ih bk
ih\ukblv bgl_j_k d bamq_gbx bklhjbb b fhlb\bjh\Zlv mqZklgb
\ukhdbo j_amevlZlh\ GZklhysb_ j_dhf_g^Zpbb_lZ^bqkh\Zhfu
dhfbkkbyf fmgbppbiZevgh]h wlZiZ^hee`bfubZk^eum`blv jmdh\h^
ijbkhklZ\e_gbb aZ^Zgbc rdhevgh]h wlZiZ
Hkgh\gZy aZ^ZqZ rdhevgh]h wlZiZ ih bklhjbb khklhbl
kihkh[guo d ij_^f_lm mqZsboky\b`h_gbfibZ^gh_

Rdhevguc wlZi \k_jhkkbckdhc hebfibZ^u ih bkl
ihjZajZ[hlZgguf fmgbpbiZevgu-f_ijh^bq_kdb dhfbkkbyfb he
aZ^Zgbyf hkgh\Zgguf gZ kh^_j`Zgbb khhl_lkl\mxsbo h[j
m]emzdgh]h mjh\gy ^ey Zkkh\

Dhgdj_lgu_ kjhdb b f_klZ ijh_^_gby jhkevgh]h cwhZibZfbk
rdhevgbdh\ ih bklhjbb mklZgZ\eb\Zxlky hj]Zghf f_klgh
hkms_kl\eyxsbf mijZ\e_gb_ \ kn_j_ h[jZah\Zgby

< khhl_lkl\bb k lhjy^dhf ijh_^_gby hebfibZ^u hj]Zgba
\k_jhkkbckdhc hebfibZ^u rdhevgbdh\ ih bkl

– nhjfbjm_l hj]dhfbl_l rdhevgh]h wlZiZ hebfibZ^u ih bk
_]h khklZ\

– nhjfbjm_l `xjb rdhevgh]h wlZiZ hebfibZ^u ih bklhjbb
khklZ\

– nhjfbjm_l fmgbpbiZevgu-f_ijh^bq_kdb dhfbkkbb ih bk
ml_j`^zbokhklZ\u

Hj]dhfbl_l \uihegy_l ke_^mxsb_ nmgdpbb

– hij_^_ey_l hj]Zgba_Zqpbhghg]hbq_kdmx fh^_ev ijh_^_gby
wlZiZ hebfibZ^u

– h[_ki_qb\Z_l hj]ZgbaZpbx brdhjevg^h]gb_wlZiZ hebfil
\khhl_lkl\bb k ml_j`^zggufb hj]ZgbaZlhjhf hrdhfevgh]h
lj_[h\Zgbyfb

– hkms_kl\ey_l dh^bjh\Zgb_ h[_aebqb\Zgb_ hebfibZ^
rdhevgh]h wlZiZ hebfibZ^u

– g_kzl hl_lkl_gghklv aZ `bagv b a^hjh\v_ mqZklgbdl
ijh_^_gby rdhevgh]h wlZiZ hebfibZ^u

– kh\f_klg`xjb mqZkl\mjZ[hl_ Zi_eeypbhgghc dhfbkkbb

FmgbpbiZevgZy if_^h^lgqh_kdZy dhfbkkby

– jZajZ[Zlu\Z_l lj_[h\Zgby d hj]ZgbaZpbb b ijh_^_gb
hebfibZ^u k mqzlhf f_lh^bq_kdbo j_dhf_g^ZPbqljZidhvg]hlh
ij_^f_l-fh_lh^bqh_kdhfbk_kdhebfibZ^u

– khklZ\ey_l hebfibZ^gu_ aZ^Zgby gZ hkgh_ kh^_j`Z
ijh]jZff m]em[ezggh]h mjh\gy nhjfbjm_l ba gbo dhfie_dlu
wlZiZ hebfibZ^u k mqzlhf f_lh^bq_kdbo j_dhf_g^Zpbc ih^]
ij_^f_l-fh_lh^bqdhkc dhfbkkb_c hebfibZ^u

– h[_ki_qb\Z_l ojZg_gb_ hebfibZ^gu_ aZ^Zgby djbl_jbb b f_lh^bdm bo

– hkms_kl\eyh_jidm jZ[hl mqZklgbdh\ rdhevgh]h wlZiZ

djbl_jbyfb hp_gb\Zgby jZajZ[hlZggufb fmgbpbiZevguc wlZi

dhfbkkb_c

– h[_ki_qb\Z_l gZebqb_ ^_`mxjguo dhehjuh\ ijb g_h[oh^bf

hl_qZxl gZ \hijhku mqZklgbdh\ rdhevgh]h wlZiZ

– ijh\h^bl ihdZa b jZa[hj \uiheg_gby aZ^Zgby fmgbpbiZ\uk bmc

khijh\h`^Zxsbfb ebpZfb h[tykgy_l djbl_jbb hp_gb\Zgby dZ`^

– jZkkfZljb\Z_l Zi_eeypbb mqZklgbdh\

– khklZ\ey_l j_clbg]h\u_ lZ[ebpu ih j_amevlZlZf \uih

blh]h\uc j_clbg] mqZklgbdh\u

–]hlh\bl ZgZeblbq_kdhc jhaqmevhZbZ^u b izlj_^]Zh

\hj]dhfbl_l

FmgbpbiZevguc wlZi \k_jhkkbckdhc hebfibZ^u rdhevgbd

\uy\blv lhl hlghkbl_evgh rbjhdbc djm] mqZklgbdh\ dhlhju_ k

gZ [he__ \ukhdbo klZ^byo hebfibZ^gh]h pbdeZ \ i_j\mx hq_

GZklhysb_ j_dhf_g^Zpbb Z^j_kh\Zgu j_]b hlhZevqukdbf_dfbgkhk

ihbklhjbb b ^he`gu kem`blv jmdh\h^kl\hf ijb khklZ\e_gbb a

wlZiZ AZ^ZqZ fmgbpbiZevgh]h wlZiZ ih bklhjbb khklhbl

kihkh[guo d ij_^f_lm mqZsboky\b`hgbfibZ^gh_

FmgbpbiZevguc wlZi \k_jhkkbckdhc hdehb\fibiZ^ubkldhebv

ijh\h^blky ih jZajZ[hlZggufj_]bhgZevgluhf^bqij_k^dfb_flbghdhfbkkb

hebfibZ^u aZ^Zgbyf hkgh\Zgguf gZ kh^_j`Zgbb khhl_lkl\

ijh]jZff m]em[ezggh]h mjhdgeyZ^kehy\

< khhl_lkl\bb k lhjy^dhf ijh_^_gby hebfibZ^u hj]Zgba
fmgbpbiZevgh]h wlZiZ hebfibZ^u ih bklhjbb mklZgZ\eb\Zxlky
\eZklb km[t_dlZ Jhkkbckdhc N_^_jZbfbjhkmkZjsk_l_egyx_s mijZ\
\kn_j_ h[jZah\Zgby F_klZ ijh_^_gby fmgbpbiZevgh]h wlZiZ
mklZgZ\eb\Z_l hj]Zg f_klgh]h kZfhmijZ\e_gby hkms_kl\eyx
h[jZah\Zgby

GZ fmgbpbiZevgh]h wlZi_ \k_jhkkbckdhc hebfibZ^u rdh
ijbgbfZxl bg^b\b^mZevgh_ mqZklb_

– mqZklgbdb rdhevgh]h wlZiZ hebfibZ^u \k_jhkkbckdhc hebfibZ^u ih bk
l_dms_]h mq_[gh]h]h^Z gZ[jZ\rb_ g_h[oh^bfh_ ^ey mqZkl
hebfibZ^u dhebq_kl\h [Zeeh\ mklZgh\e_ggh_ hj]ZgbaZlhjh
hebfibZ^u

– ih[_^bl_eb b ijbazju fmgbpbiZevgh]h wlZiZ hebfibZ^u \k_jhkk
rdhevgbdh\ ih bklhjbb ij_^u^ms_]h]h^Z mq_[gh]h e`Zxsb_ h[m
\hj]ZgbaZpbyo hkms_kl\eyxsbo h[jZah\Zl_evgmx ^_yl_evg
ijh]jZffZf hkgh\gh]h h[s_]h b kj_^g_]h h[s_]h h[jZah\Zgby

Ih[_^bl_eb b ijbazju fmgbpbiZevgh]h wlZiZ hebfibZ^u \k_jhkkbckdhc heb
rdhevgbdh\ ih bklhjbb ij_^u^ms_]h]h^Z \ijZ_ \uihegylv h
jZajZ[hlZggu_ ^ey [he__ klZjrbo deZkkh\ ih hlghr_gbx d l_f
h[mq_gb_ < kemqZ_ bo ijhoh`^_gby gZ ihke_^mZgbu_ w
mqZklgbdb hebfibZ^u \uihegyxl hebfibZ^gu_ aZ^Zgby jZa
dhlhjuc hgb \u[jZeb gZ fmgbpbiZevghf wlZi_ hebfibZ^u

< khhl_lkl\bb k lhjy^dhf ijh_^_gby hebfibZ^u hj]Zgba
wlZiZ \k_jhkkbckdhc hebfibZ^u bklhjbb ih rdhevgbdh\ ih

– nhjfbjm_l hj]dhfbl_l fmgbpbiZevgh]h wlZiZ \k_jhkk
rdhevgbdh\ ih bklhjbb b ml_j`^Z_l _]h khklZ\

– nhjfbjm_l `xjb fmgbpbiZevgh]h wlZiZ \k_jhkkbckdhc he
ih bklhjbb b ml_j`^Z_l _]h khklZ\

– mklZgZ\eb\Z_l dhZeeq_kl\h bklhjbb ih dZ`^hfm deZkkm
^ey mqZklgbdb fmgbpbiZevghf wlZi_ hebfibZ^u

– ml_j`^Z_l jZajZ[hlZggu_ j_]bhgZev-fufb^bqij_k^hf_bg
dhfbkkbyfb lj_[h\Zgby d hj]ZgbaZpbb b ijh_^_gbx fm
\k_jhkkbckdhc hebfibZ^uh\rdhevgbklhjbb dhlhju_ hij_^_eyxl
khklZ\e_gby hebfibZ^guo aZ^Zgbc b nhjfbjh\Zgby dhfie_dlh

hibkZgb_ g_h[oh^bfh]h -lf_Zdgbqb_ekvdghlh]h h[_ki_q_gby ^ey
hebfibZ^guo aZ^Zgbc djbl_jbb b f_lh^bd_bgnupo_ghbeZfibyZ^gui
aZ^Zgbc ijhp_^mjm j_]bkljZpbb mqZklgbdh\ hebfibZ^u ihc
lZd`_ jZkkfhlj_gby Zi_eeypbc mqZklgbdh\ fmgbkpbcZebgh]
hebfibZ^u rdhevgbdh\ ih bklhjbb

– h[_ki_qb\Z_l ojZg_gb_ hebfibZ^guo aZ^Zgbc wlfZiZ
\k_jhkkbckdhc hebfibZ^u rdhevgbdh\ ih bklhjbb g_l
aZdhgh^Zl_evkl\hf Jhkkbckdhc N_^_jZpbb hl_lkl_gghklv aZ

– hij_^_ey_l d\hlu ih[_^bl_e_c gbpibZevgh]fm wlZiZ hebf
ihdZ`^hfm h[s_h[jZevgh]fm ij_^f_lm

– ml_j`^Z_l j_amevlZlu fmgbpbiZevgh]h wlZiZ \k_jhk
rdhevgbdh\ ih bklhjbb j_clbg] ih[_^bl_e_c b j_clbg] ijbazjh
hebfibZ^u b im[ebdm_l bo gZ k\hzf hnbpbZevghlfhfkZqblke\
ijhlhdhèxujb fmgbpbiZevgh]h wlZiZ hebfibZ^u ih bklhjbb

– i_j_^Zzl j_amevlZlu mqZklgbdh\ whZgbpbeZevgZ^u ih bk
ihdZ`^hfm deZkkm hj]ZgbaZlhjm j_]bhgZevgh]h wlZiZ h
mklZgh\e_gghf hj]ZgbaZlhjhf j_]bhgZevgh]h wlZiZ hebfibZ^u

– gZ]Z`^Z_l ih[_^bl_e_c b ijbazjh\ fmgbpbiZevgh]h
ihhsjbl_evgufb]jZfhlZfb

Hj]dhfbl_l fmgbpbiZevgh]h wlZiZ hebfibZ^u

– hij_^_ey_l hj]Zgb-aZqbhegh]hbq_kdmx fh^_ev ijh
fmgbpbiZevgh]h wlZiZ hebfibZ^u

– h[_ki_qb\Z_l hj]ZgbiaZ_h^x gbgbfmbiZevgh]h wlZiZ hebf
ihbklhjbb \ khhl_lkl\bb k ml_j`^zggufb hj]ZgbaZlhjhf fm
hebfibZ^u lj_[h\Zgbyfb d ijh_^_gbx fmgbpbiZevgh]h wlZiZ h

– hkms_kl\ey_l dh^bjh\Zgb_ h[_aebqb\Zgb_mqZklgbdh\
fmgbpbiZevgh]h wlZiZ hebfibZ^u

– g_kzl hl_lkl_gghklv aZ `bagv b a^hjh\v_ mqZklgbdh
ijh_^_gby fmgbpbiZevgh]h wlZiZ hebfibZ^u ih dZ`^hfm
ij_^f_lm

J_]bhgZevgZy ijf_^fh^lbqh_kdZy dhfbkkby

– jZajZ[ZZu\ lj_[h\Zgby d hj]ZgbaZpbb b ijh_^_gbx
hebfibZ^u k mqzlhf f_lh^bq_kdbo j_dhf_g^ZPbqljZehvg]hlh
ij_^f_l-fh_lh^bqhkdhfbk_kdhebfibZ^u

– khklZ\ey_l hebfibZ^gu_ aZ^Zgby gZ hkgh_ kh^_j`Z
ijh]jZff m[]ezmugh]h mjh\gy nhjfbjm_l ba gbo dhfie_dlu aZ^
wlZiZ hebfibZ^u k mqzlhf f_lh^bq_kdbo j_dhf_g^Zpbc ih^]
ij_^f_l-gfh_lh^bq_kdhc dhfbkkb_c hebfibZ^u

– h[_ki_qb\Z_l ojZg_gb_ hebfibZ^yguchevZg^Z]hbowlZbiZ^uhebf
^hbo i_j_^Zqb hj]ZgbaZlhjm rdhevgh]h wlZiZ hebfibZ^u
aZdhgh^Zl_evkl\hf Jhkkbckdhc N_^_jZpbb hl_lkl_gghklv aZ

H[jZsZ_f hkh[h_ \gbfZgb_ ij_^klZ\bl_e_c j_]bhgZe
f_lh^bq_kdbo dhfbkkb^cbfhZklv_hs[Zlh_evghc jZajZ[hldb j_]eZf_g
ihdZaZ \uiheg_gguo mqZklgbdZfbgbcebfibjZ^kfhajZ^gZby Zi_ee
<lj_[h\Zgbyo d ijh_^_gbx fmgbpbiZevgh]h wlZiZ g_h[
g_\hafh`ghklv ih\ur_gby [Zeeh\ ijb ihdZah_ jqZ[hlbaZ_lgZ_dg`b__g[Z
^he`gh ijhbkoh^blv lhevdh \h \j_fy Zi_eeypbc \ lhf qbke_ b

@xjb fmgbpbiZevgh]h wlZiZ

– bamqZ_l hebfibZ^gu_ aZ^Zgby djbl_jbb b f_lh^bdm bo

– hkms_kl\ey_l ijh_jdm jZ[hl mqZklgbdh\ \dh^kv\gmyjkv v
djbl_jbyfb hp_gb\Zgby jZajZ[hlZggufb j_]bhgZeb\gh_kdhic
dhfbkkb_c

– h[_ki_qb\gZZ_ebq^b_`mjguqe_gh\xjb dhlhjuijb g_h[oh^bfhklb
hl_qZxl gZ \hijhku mqZklgbdh\ ih l_dklm aZ^Zgbc

– ijh\h^bl ihdZa b jZa[hj \uiheglmgjhy kaZm^qZgkhegbfdbZZfbu b
khijh\h`^Zxsbfb ebpZfb h[tykgy_l djbl_jbb hp_gb\Zgby dZ`^

– jZkkfZljb\Z_l Zi_eeypbb mqZklgbdh\

– khklZ\eyj_clbg]h\uZ[ebpuh j_amevlZ\uZifheg_gby aZ^Zgbc
blh]h\uc j_clbg] mqhZkfigbbZd^hu\

–]hlh\lb ZgZeblbq_kdlbch hjlgamevhZbZfobZ^u b izlj__^]Zh
\hj]dhfbl_l

2. F [illegible]

2.1. I [illegible]

Rdhevguc wlZi hebfibZ^u ijh\h^blky ih jZajZ[hlZgguf
ij_^f_l-gfh_lh^bq_kdbfb dhfbkkbyfb hebfibZ^u aZ^Zgbyf hkgh\

h[jZah\Zl_evguo ijh]jZff hkgh\gh]hj_^gh[sh_]hh[sb_]hk h[jZah\Z
m]emzdgeh]h mjh\gy b khhl_lkl\mxs_c gZijZ\e_gghkebZkkjh\nbey

< wlhc jZ[hl_ hgb ^he`gu jmdh\h^kl\h\Zlvky gZklhysbfb
^he`gh h[_ki_qblv f_lh^bq_hkedhfibZ^ughklh^bgZdh\ujc_[mj\Z\gbcv
d mqZklgbdZf \ jZaebqguo j_]bhgZo

Ijb ih^]hlh\d_ aZ^Zgbc hebfibZ^u rdhevgh]h wlZiZ g_
g_h[oh^bfhklv mkeh`g_gby aZ^Zgbc ih f_j_ ih\ur_gby he
ihklZ\e_ggu_ i_j_^ wlZihf p_eb ij_^iheZ]Zxsbh_\hjabf\he`gdh_[hbe
bgl_j_kmxsboky bklhjb_c rdhevgbdh\ d hebfibZ^ghfm ^\b`_gb

FmgbpbiZevgu_ ijf_^fh^lhgdh_kdb_kbdhfbjklh\yl dhfie_dlu aZ
cmzdhf lh]h zfZ[tfZl_jbZeZ dhlhjuc gZ ^ijZhgdg^u_cgfhmfq_Zkklgbdfb \ r
<5± deZkkjZ^eZ]Zxlky lhevdh hebfibZ^gu± aZk^fZqgbbl_bih\<
deZkkZo h[yaZl_evgh ij_^eZ]Z_lky ehZ^gZhxsa_Z^ZggZbi_bkZigb^ihkhq
ihbklhjbb aZ^ZZgby l>hiey [Zeeh\ ihemqZ_fuo mqZklgbdhf aZ
aZ^Zgby ^heZ^geZylkvhkl hl h[s_]h qbkeZ [Zeeh\ aZ wlZi ih h[s
[Zeeh\

Ijb khklZ\e_gbb aZ^Zgbc ke_^m_l klj_fblvky d lhfm q
hl_lZ lj_[h\Ze hl rdhevgbdZ mf_gby kZfhklhyl_evgh jZafu
Ke_^m_l klj_fblhvkmy dqlh[u aZ^Zgby g_ klZ\beb ih^zgdkuf_g_
iheh`_gby [Zah\h]h dmjkZ bklhjbb Z ih^lZedb\Zeb mqZkl
jZafure_gbx gZ^ fZl_jbZehf jZa\b\Zeb m`_ ba_klgu_ bf i
gZmdb MqZklgbd hebfibZ^urhdkhh_agZklyukolZijZjZee_eyo ^he
jZ[hlZlv k jZaebqgufb bklhqgbdZfb bgnhjfZpbb beexkljZ
^bZ]jZffu lZ[ebpu l_dklu bklhjbq_kdbo bklhqgbdh\ Hq_g
iha\heyeb lZd`_ \uy\blv h[sbc dmevlmjguc m`jhh_gqvlhfuqZ\kl
dhfie_dl_ aZ^Zgbc [ueb rbjhdh ij_^klZ\e_gu \hijhku dZkZ
ijhc^_gguo \ l_dms_f mq_[ghf]h^m gh b l_]fh^hk\h_gguo \ ijl

< \uimkdguo deZkkZo djZcg_ \Z`gh ^h[blvky ^hklZ
jZkij_^_e_gby \hijhkehh\\ hdh[Zhju_ fh`_l ihemqblv mqZklgbd f_
i_jbh^Zfb @_eZl_evgh ijb wlhf hjb_glbjh\Zlvky gZ klZg^
aZdj_zgegmx \ rdheivhg]hjZff_

– ^j_\g_crbozgj_^fh k_j_^bgu ;9, \
– k k_j_^bgu \ ;9, dhgpZ ;;9,,, \
– ;,; \;

– kgZZqeZ ;; \ ^h gZklhys_]h \j_f_gb

;hevrbgkl\h aZ^Zgbc h[uqgh ihk\ys_gh hl_q_kl_gghc bkl
ijbkmlkl\h\Zeb lZd`_ \hijhkuh kk\yaZsgou_bkkhjb_c dhkgh[_gkgh_ \
bklhjbb Jhkkbdb_rg_c iheblbdb b f_`^mgZjh^guo k\ya_c h^
hebfibZ\^Zj_j\mx hq_hjj_b^vglbjh\ZgZ gZ bamq_gb_ hl_q>kkv_ggh
[Zeeh\ ihemqZ_fuo aZ \Zjgjhku kk\ya_h[s_c bkgZhjb_c ^ey
%. >ey iZjZee_e_c mqZsb_ky dhlhju
ijh_^_gby i_j\uo wlZih\ hebfibZ^u bamqZeb lhevdh \k_h[smx
khklZ\eylvky gZ hkgh_ ijhc^_gguo bfb jZa^_eh\ dmjkZ Lj
aZ^Zgbyo [hevrh_ \gbfZgb_ m^_eiyb_hkyl_gguk_dhe_vZbf lZdbf
jZa\blb_ jmkkdhc dmevlmju \ ;,; \ b <_ebdZy Hl_q_kl_ggZy

G_h[oh^bfh lZd`_ k[ZeZgkbjh\Zlv ijh[e_fZlbdm \hijhkh\
\ jZ\ghc kl_i_gb dZkZlv-kwydhkghfbZe_vghc bklhjbb iheblbq_k
bklhjbb dmevlmju bklhjbb \g_rg_c iheblbdb Jhkkbb

[HaZ_evgfy\ey_lky \dexq_gb_ \dhfe_dl aZ^Zgbc ± \hijhkh\
kyaZgokj_bhZgvlgcdhfhggbc\bklhjbqkdhfhZgb <Z`gh qlh[u
wlh \dexq_gb_ [ueh hj]Zgbqguf gm`gh klj_fbhkvkydhaZ^Zdv[u
gZf_klghf fZl_jbZe_ ihdZ-æub\Zhe dZmdu_ h[s_jhkkbckdb_ ijhp_
\k_]h _keb wlb \hijhku dZkZhxkky[udbcbeb iZfylgbdh\ h[s_jh
fZkrlZ[Z k\yaZgguo k jb_]hjbZevghc

Rdhevguc wlZi hebfibZ^uv^hZkg\[f b kihkh[kl\h\Zlv ih\
bgl_j_kZ rdhevgbdh\ d bklhjbq_kdhc gZmd_ b d hebfibZ^ghi
kblmZpby d-aZ^Zqjb_af_jghc keh`ghklb aZ^Zgbc ebrv g_fg
ij_h^he_\Zxlguc [Zjv_ji_j\huo qZklv ihl_gbhZevgh mkqZklgbc
hlk_dZ_lkzygZ_sjZgg_f wlZi_ Z djhf_ lh]h lZdZy ijZdlbdZ i
rdhevgbdh\ qm\kl\h jZahqZjh\Zgby ebrZ_l bo klbfmeZ d
gZke_^mxsbc]h^ < lh `_ \j_fy aZ^Zgby g_ ^he-ggu]hij_^
\uiheg_gbuykrbc j_amevlZl ^he`_g [ulv ^hklb`bf ih hl^_evguf
[ehdZf lhevdh ^ey kZfuo kbevguo ki_pbZevgh bgl_j_kmxsb
mqZklgbdh\

J_r_gb_ ^hklb]Zf\lkydeixmql_gby \ dhfie_dl aZ^Zgbc \hijh
mjh\gy keh`ghklbf wiljhbq^he`gh [ulv k^_eZgh g_ \ ms_j
k[ZeZgkbjh\Zgghklb aZ^Zgbc kdZ`_f g_ijZ\bevgh >j_k\egb_c\h
Jmkb \k_ hlghdZylkyhjbb g_keh`guo, gZijhlb;\\bkdeevgh keh`gu

Hq_gv \Z`gjZaijZ[hld_ aZ^Zgbcjh^ihjZxgZo lhiul ijh_^_gby rdh
wlZiZ hebfibZ^u \ aZ\bkbfhklb hl dj_gjh_gZuo mkeh\bc

2.2.

<lhjhc wlZi \k_jhkkbckdhc hebfibZ^u mkhlevgb ijba\Zg j_
^_ hkgh\gu_ aZi^ZjZuo <wlh hl[hj gZb[he__ lZeZgleb\uo b
bklhjb_c rdhevgbdh\ dhlhju_ fh]eb [u \ihke_^kl\bb \uklmiZ
\k_jhkkbckdhf hebfibZ^u-\<hjuo ijh\gb_ i_j\uo wlZifibZ^u
k\hafh`gh [he__ rbjhdbf ijb\e_q_gb_f mqZsboky jZaguo deZ
bgl_j_k d bamq_gbx bklhjbb b fhlb\bjh\Zlv mqZklgbdh\ ^ey
j_amevlZlh\ GZklhysb_ j_dhf_g^Zpbb Z^j_kh\Zgu- j_]b
f_lh^bq_kdb_ dhfbkkbyf b ^he`gu kem`blv jmdh\h^kl\hf ijb khk
fmgbpbiZevgh]h wlZiZ

Ijh_^_gb_ fmgbpbiZevgh]h wlZiZ \k_jhkkbckdhc hebfibZ
[ulv hkgh\Zgh gZghfhjkZmqb_qZgbb l\Z^bgjk_[h\Zgbc ij_^ty\ey_
dmqZklgbdZf ihljZkg_c k jZa\blby ljZ^bpbc ijh_^_gby wlbo
keh`bebkv \ jZaebqguo j_]bhgZo b mqblu\Zxl f_klgu_ hk
f_lh^bq_kdb_ dhfbkkbb j_]bhgZevgh]h wlZiZ fh]ml ij_^e
fmgbpbiZevgh]h wlZiZ g_kdhevdh \ZjbZglh\ aZ^Zgbc

Ijb ih^]hlh\d_ aZ^Zgbc hebfibZ^u fmgbpbiZevgh]h wlZiZ
g_h[oh^bfhklv mkeh`g_gby aZ^Zgbc ih f_j_ ih\ur_gby he
ihklZ\e_ggu_ i_j_^ wlZihf p_eb ij_^iheZ]Zxsb_ \hafh`gh [he
bgl_j_kmxsboky bkdhjevgbdh\ d hebfibZ^u`ghfmx lj_^eZ]Z_l
kqblZlv qlh _kv dhfie_dl aZ^Zgbc gZ fmgbpbiZevghf wlZi_
h[s_]h qbkeZ±[Zeeh\jb wlhf jZaebqgu_ aZ^Zgby ^he`gu ijbg
jZagh_ dhebq_kl\\h a[Z\bkh\fhkbbo hkeh`ghk\hbajbZklghc iZjZee_e
dhlhjhc hgb ij_^klZ\e_gu H[s__ qbkeh aZ^Zgbc jZkkqblu\Z
dhlhjh_lh^Zgbo j_r_gb_

F_lh^bq_kdb_ dhfbkkbb]hlh\yl dhfie_dhfu laZ]hZgbZc F
fZl_jbZeZ dhlhjuc gZ ^Zjhgu^c_ghfmqZklgbdZfb \ rdhe_

< ± deZkkZo ij_^eZ]Zxlky lhevdh hebfibZ^gu_ aZ^Zqb
kfgb`_< ± deZkkZo h[yaZl_evgh ij_^eZ]Z_lky h^gh aZ^Zgb
gZibkZgb_ khqbg_gby ih bklhjbb aZ^Zgby lbih\ beb
f_lh^bq_kdhc dhfbkkbyb[Zeeh\ ihemqZ_fuo mqZklgbdhf aZ

aZ^Zgby ^he`gZ khklZ\eyxlky gZ hkgh_ h[s_h[jZah\Zl_evgu
hl [Zeeh\

Содержание заданий

Kms_kl\mxl ljb hkgh\guo lj_[hZZgbyf dmgabpbiZevgh]h
ihbklhjbb Hgb ^he`gu bf_lv l\hjq_kdbc oZjZdl_j hlebqZlvk
kh^_j`Zgby b khhl_hkalh\gZhklyf mqZklgbdh\

1. L\hjq_kdbc oZajZ^dZgbc

AZ^Zgby khklZ\eyxlky gZ hkgh_ h[s_h[jZah\Zl_evgu
hebfibZ^Z g_ fh`_l b g_ ^he`gZ ^m[ebjh\Zlv h[uqguc dhgljhe
aZ^Zgby ^he`gu ijbgpbibZevgh hqebqZdhkgyjhevhguo jZ[hl <
\j_fy j_qvzlbh ij_^f_lghc hebfibZ^_ b ijb khklZ\e_gbb a
klj_fblvky d lhfm qlh[u ihbkd ijZ\bevgh]h hl_lZ lj_[h\Ze h
kZfhklhyl_evgh jZafureylv b ^_eZlv \u\h^u lZdfbq_hkdghc\Z
ih^]hlh\db Ke_^m_l klj_fblvky d lhfm qlh[u aZ^Zgby g_
hij_^zgegu_ iheh`_gby [Zah\h]h bdbmjkZZ ihk^lhZjedb\Zeb mqZ
dkZfhklhyl_evghfm jZafure_gbx gZ^ fZl_jbZehf jZa\b\Zel
iheh`_gby bklhjbqZ_mkdbc

?keb rdhevgu_ dhgljhevgu_ jZ[hlu b l_klju_`^?=Vk_gZp
gZjh_jdm mk\h_gby mq_[gh]h fZl_jbZeZ l^u mqZklgbd
ijh^_fhgkljbjh\Zlvevgdh khhl_lkl\b_ klZg^Zjlguf lj_[h\Zgbyf
fZl_jbZeZ rdhevgh]h_adgZjkZ_ lnZdlh\ \eZ^_gb_ ki_pbZevghc
ihgbfZgb_ k\ya_c f_`^m y\e_gbyfb b bklhjbq_kdbo aZdhghf
lj_[m_lky mf_gb_ khihklZ\eylv nZdlu \uy\eylv lZdb_ k\yab f_
qZklbqgh \uoh^yl aZ jZfdhevgZhlhdmjkZhbklhjbb < dZq_kl_
ki_pbnbq_kdbo mf_gbc fh`gh gZa\Zlv kihkh[ghklv kZfhl
_kl_kl_ggh ijbf_jgh \j_fy \hagbdgh_gby lh]h beb b
om^h`_kl\_ggh]h ijhba\_^_gby _]h ijhbkoh`bZ^ub_ hkdqZkgghb
klZjrbo \hajZklguo iZjZee_eyo ^he`_g mf_lv jZ[hlZlv k jZ
bgnhjfZpbb beexkljZpbb dZjlu ko_fu ^bZ]jZffu lZ[ebpu
bklhqgbdh\

Hq_gv \Z`gh qlh[u aZ^Zgby iha\heyeb lZd`_ \uy\blv
dmevlmjguc mjh_gv mqZklgbdh\

Djhf_ lh]h \ b deZkkZo \hafh`gh \dexq_gb_ aZ^Zgb
agZdhfkl\h mqZklgbdh\ k dhgp_ipbyfb \Z`g_crbo bklhjbdh\
Zj]mf_glbjh\Zlv kh[kl_gjg_gxylhqdm

2. K[ZeZgkbjh\Zkhu^h_j`Zgby

Bklhjbq_kdZy gZmdZ klhev h[rbjgZ qlh ebrv g_fgh]b_
fh]ml \ jZ\ghc kl_i_gbzjaZgaZ^lveuk_>ey lh]h qlh[u ^Zlv rdhevgb
bgl_j_kmxsbfky-eb[hdhic[h[e_fZlbdhc \hafjh`g\hkv k\hb kihkh[g
\aZ^Zgbyo ^he`gu [ulv \hijhku ih \k_f i_jbdhZ^sZbffbkjyhc^Zjgguo_f
gZfhf_gl ijh_^_gby hebfibZ^u <Z`gh qlh[u \ dhfie_dl_ aZ
ij_^klZ\e_gu \hijhku dZkZxsb_ky g_ lhevdh l_f ijhc^_gguo
gh b l_f hkbh_gjghure]uh_^u

< \uimkdguo deZkkZo djZcg_ \Z`gh ^h[blvky ^hklZ
jZkij_^_e_gby \hijhkh\ b [Zeeh\ dhlhju_ fh`_l ihemqblv mqZ
i_jbh^Zfb @_eZl_evgh ijb wlhf hjb_glbjh\Zlvky gZ klZg^
aZdj_zgeym\xrdhevgjhc]jZff_

– k ^j_\g_crbozg\j^_f k_j_^bgu ;9, \
– k k_j_^bgu ^;9,dhgpZ ;;9,,, \
– ;,; \;
– k gZqZeZ ;; \ ^h gZklh.ys_]h \j_f_gb

;hevrbgkl\h aZ^Zgbc h[uqgh ihk\ys_gh hl_q_kl_gghc
qlh[u ijbkmlkl\h\Zeb lZd`k\yaZjgdku_\k_h[s_c bklhjb_c hkh
\dhgl_dkl_ bklhjbb zJhgk_kbc_iheblbdb b f_`^mgZjh^guo k\y
ljZ^bpbhggh hebfibZ^Z hjb_igjbmx\Zhqj_gZ^vamq_gb_ hl_q_kl
bklhjbbshey [Zeeh\ ihemqZ_fuo aZZdgjuhkhu \k_yas_c bklhjb_
^ejZ ± HgggZ LjZ^bpbhggh \
hebfibZ^guo aZ^Zgbyo [hevrh_ \gbfZgb_ m^_ey_lky g_kdhe
lZdbf dZd jZa\blb_ jmkkdhc dmevlmju \ ;,; \ b <_ebdZy Hl_d

G_h[oh^bZfd`_ k[ZeZgkbjh\Zlv ijh[e_fZlbdm \hijhkh\ hgb
\ jZ\ghc kl_i_gb dZkZlv-kvdhkghfbZe_kdhc bklhjbb iheblbq_k
bklhjbb dmevlmju bklhjbb \g_rg_c iheblbdb Jhkkbb

yaZ_evgfyey_lky \desgb_ \dhfe_dl aZgc ± hij kh\
kyaZokj_bhgZvlcdhfhggc\bklhjbqkdhfZgb <Z`gh qlh[u
wlh \dexq_gb_ [ueh hj]Zgbqguf gmZgvh lZdjhcb\vkiyhkaZ^dhlhju

gZf_klghf fZl_jbZe_ ihdZ-æeb\[Zhe dqjZdidu__ h[s_jhkkbckdb_ ijhp_
\k_]h _wkleb\hijhku dZkZx-ekby[hdZkdhfuolbc beb iZfylgbdh\ h[s_jh
fZkrlZ[Z k\yaZgguo k jb_]bhhjdZ_evghc

3. Khhl_lkl\b_ mjh\gy aZ^Zgbc \hafh`ghklyf mqZklgbdh\

Fmgbpbiievguc wlZi hebfibZ^u ^he`_g [ulv fZkkh\uf
ih\ur_gbx bgklZjr_dhevgbdh\ d bklhjbq_kdhc gZmd_ b d hebfib

G_`_eZl_evgZ kblmZ-aZyqjd_a]f^Zghac keh`ghklb aZ^Zgbc e
mqZklgbdb ij_h^he-gZx[Zjv_ii_j\huo qZklv ihl_gpbZevgh
mqZklgbdh\ hlk_zdZZlkjyZgg_sf_wlZ djhf]hllZdZy ijZdlbdZ ihjh
mfgh]bo rdhevgbdh\ qm\kl\h jZahqZjh\Zgby ebrZ_l bo klbfm
gZ ke_^mxsbc]h^ < lh `_ \j_fy aZ^Zgby g_ ^hehjhu ij
\uiheg_gby \ukrbc j_amevlZl ^he`_g [ulevg^hfklbh`bfjiZl_he^gu
[ehdZf lhevdh ^ey kZfuo kbevguo ki_pbZevgh bgl_j_kmxsb
mqZklgbdh\

J_r_gb_ ^hklb]Zzflk\ydeixmql_gby \ dhfie_dl aZ^Zgbc \hijh
mjh\gy keh`ghklbf wjlbq ^he`gh [ulv k^_eZgh g_ \ ms_j
k[ZeZgkbjh\Zgghklb aZ^Zgbc kdZ`_f g_ijZ\bevgbb >jkeg_chi
Jmkb \k_ hlghdZylkjyjdbb g_keh`guo, gZijhlb;\\ bkdexvgh keh`gu
Hq_gv \Z`gZjZajjZ[hld_ aZ^Zgbc hihjZ gZ ljZ^bpbx b h
fmgbpbiZevgh]hebvfiZbZ^u \ aZ\bkbfhklb hl dhgdj_lguo mkeh\b

2.3. H[g[g[ )

< wlhf jZa^_eky ^dZZldZy oZjZdl_jbklbdZ hkgh\guo lbih
aZ^Zgbc \ujZ[hlZgguo fgh]he_lg_c ijZdlbdhc hebfibZ^ b
keh`ghklb k\yaZggu_ k bDoZ`khuaZ^Zgbc k dhfie_dlZ aZ^Zgbc
h[yaZl_evgh khijh\h`^Zlvky mdZaZdkbfZevgZhd_dhfeZbq_kl\h [Z
fh`_l ihemqblv mqZklgbd aZ hl\_l Z \ aZ]heh\d_ gm`gh mdZa
[Zee aZ _k<v dmejxqZo lZd`_zgdm`gjhiokZlv gZ hkgh\Zgbb\dZdb
mqZklgbd ihemdZ^_hl_aZZ^Zgb_ fZdkbfZevgbafhZeeo qZkev\ b
ghev

Ke_^m_l h[jZlblv \gbfZgb_ gZ lh qlh[u nhjfmebjh\db
^\mkfuke_gghklb \ lhf \ dZdhc nhjf_ ^he`_g ?ukevbjm^Zkl\ge_g
^he`_g gZa\Zlv dhgdj_lgu_ \Zjb\Zgkeu_^hml_lZih^]hlh\blv lZ[

1. L_klh\uhijhku

Ijhkl_crZnyhjfZ ijh_jdb agLZkgdhc\u_ \hijhuk\uZxlaZdjulufb kij_^eh`_ggufb \ZjbZglZfb hl\_lh\ beb hldjulufb mqZklgbdm hl\_l kZfhklhyl_evgkihelvjah\Zkgdbjulu\dhijhkhg\_h[oh^bfh bklvjkyf dfZdkbfZevgdhcq nhjfmebjh\d_ aZ^Zgby b[h \ ijhlb\ghf kemklhedgmlvky k fgh`_kl\hf keh`ghkl_c ijb ijh_jd_ k\yaZgguo ijZ\bevguo hl_lh\ >Z\ lZdhc hl_l mqZkgdhdh aZijhZekdhmx anZ[^_b g_ ij_^ijbgbfZ_l mkbebc ^ey ihbkdZ [he__ lhqgh]h j_r_gby

Пример:

GZ \hijhdh gZkg ihjZ`_gb_ lmj_pdbf \hckdZf ijb\f_Dkhlaem^ij_^mkfhlj_ggh]h dexqhf hlK_mlZhjh©\:ªzkk^yZhl\:l©Jmkkdzy Zjfbyª Hl\_j]Zy wlhl hl\_lzl `xhjbfZ^eZvgh_ hkgh\Zgb_ ^ey Zi_eeypbb

>Z`_ \ l_klh\uo \hijhkZo y\eyxsboky kbZifu\f hijhkfhbfZ^bgauoaZ^Zgbc ke_^m_l klj_fblvky moh^blv hl ijhklhc ijh_jdb agZbo lZd qlh[u ihbkd hl_lZ ij_^iheZ]Ze we_f_gl kZfhklhyl_evg

Пример:

DZdhc ba jmkkdbo]hjh^h\ g_ [ue' hkgh\Zg \ ;9,

: PZjbpug

; Lh[hevkd

< Hfkd

= ;_e]hjh^

GZ j_r_gb_ lZdh]h aZ^Zgby mqZklgbdm \ klZjrbe8 deZlfbgmlu

2. L_klh\uc \hijhk k g_kdhevdbfhbl\ijZZbhevgufb

< hlebqb_ hl ijhkl_cr_]h \hijhkZ lZdh_ aZ^Zgb_ gZp_eihiulZekZykkfhlj_lv hizgg^h__e y\e_gb_ beb wihom k jZaebqguo kaZqZklmx mqZklgbdZf [u\Z_l g_ijhklh hkhagZlv qlh l_ beb ^_yl_eb dmekhmjj_uf_ggbdb

Пример:

Dlh ba wlbo bkke_^h\Zl_e_c `be \ ;9,,, \ "

? OZ[Zjh\

> b O EZil_\u

K Q_exkdbg

K >_z\g

: DheqZd

: Qbjbdh\

GZ4_r_gb_ lZadZh^]Zigmbqyzklg\bkdhZjrhdeZkhZ\h^b3k5yfbgml

3. Jy^u gZ hij_^_e_gb_ ijhkdjhbiZbyo

MqZklgbdhky^Zh]bq_kdbc jy^ b ij_^eZ]Z_lky hijb^gebhv hg ihkljh_g LZdhc lbi aZ^Zgbc ke_^m_l ijbf_gylv k [hevrhc ijZdlbq_kdb ex[h_ aZ^Zgb_ fh`_l bf_lv fgh`_kl\h ijZ\bev g_h[oh^bfZ ij_^z_dZvghmqjfmeb\jhijdZ

Пример:

Ih dZdhfm bklhjbdqjbkdjhfxmh[jZah\Zgu jy^u ^h [Zeeh\ aZ \k_]h aZ hl_l ? [Zeeh\

1. ;mjfbklj nbkdZe dhee_`]kdqbcjgZZkl_hkjkhj

2. < F I_leydh\ K < Bevxrbg :.KEZYhdqdeg\ K :

3. 1478, 1510, 1514, 1521

4. : K Ohfydh\ B < Dbj__\kdbc NB KZfZjkbZgdh\ X

5. <j_fy gZ j_r±3g±b_fbg.ml

4. Jy^u gZ \dex±qb_kgdbexq_gb_

Lbi aZ^Zgbc hq_gv [ebadbc d ij_^r_kl\mxs_fm H^g \hafh`gu g_h`b^Zggu_ hl_lu y\eyxsb_ky ijZ\bevgufb g_ nhjfZevghfm ijbgpbim KhklZdbl^_eb`gaZ^jZg_mlvfh\lhafh`ghklv b ihy\e_gbdyexqZo

Пример:

<u[_jbl_ ebrg__ ihgylb_ ba kibkdZ DjZldh ihykgbl_ k\ aZdZ`^uc ijZ\bevguc hl_l fZdkhfZevguc [Zee

1. :kdhev^ Ohjbl\jm>\hjj

2. G F DZjZfabg < G LZlbs_\ G B Eh[Zq_\kdbc F < E

3. 1648, 1662, 1670 ±1671, 1695

<j_fy gZ j_r±3gbfbg.ml

5. Ojhgheh]bqihkkdeb_^h\Zl_evghklb

MqZklgbdm ij_^eZ]Z_lky jZkklZ\blv \ ojhgheh]bq_kdh
kh[ulbvWlhl lbi aZ^kZjgZb\c_^eb\h kqblZ_lky h^ghjm^bgaubkZZdfu^ceyl
mqZklgbdh\ lZd b ^ey `xjb Hrb[dZ \ hij_^_e_gbb \j_f_gb
2l d lhfm qlh ihke^h\Zl_evghklv gZjmrZ_lky ?keb dexq
kh[ulb_ ^he`gh gZoh^blvkiy_^gZeghjfh]fh_kh_ \ ihke_^h\Zl_evghk
hdZau\Z_lky iheghklvx g_ijZ\bevguf GdZijby^hd d©:x<q=>^:Z
Hrb[b\rbkv ebmv^gkbf kh[ulb_f ©:ª mqZjk_lg_bgdb_^Z©:;<=>ª k lh
aj_gby nhjfZevghc ijh_jdb kh[hjdZy iylv

Ih^h[gu_^ZagZby ij_^klZ\eyxlky hijZ\^Zggufb lhevdh \ lh
gZa\Zggu_ kh[ulby l_kgh b g_ihkj_^kl_ggh k\yaZgu ^jm] k
g_`_eZl_evgh qlh[u \ gbo ijbkmlkl\h\Zeh [hevr_ we_f_glh\

Пример:

<hkklZgh\bl_ ijZ\bevgmx ojhgihkke]b^h\Zd_mxvghklv kh[
AZibrbl_ hl_l \ \b^_ ihke_^h\Zl_evghklb ghf_jh\ kh[ulbc
dZ`^mx ihke_^h\Zl_evghklv ijb qZkhbkeg_h^hi\jZl_bevghkhZbe
fZdkbfZevguc [Zeh^aZZgb:k

:

1. <oh`^_gb_ \ khklZ;_khZkjZb[bb
2. <oh`^_gb_ \ khklZ\ Jhkkbb DjufZ
3. <oh`^_gb_ \ khklZ\ Jhkkbb Kj_^g_c :abb
4. <oh`^_gb_ \ khklZ\ Jhkkbb Ihevrb
5. <oh`^_gb_ \ khklZ\ Jhkkbb Nbgeyg^bb

Hl_l

;

1. Kh_l <k_c aYjfhekbeZ\e_
2. <aylb_ D]hjZhc^Z \hckdZfb > F Ih`Zjkdh]h
3. JZkiZ^ I_jah]fhkdh]h hiheq_gby
4. JZa]jhf]_lfZgZ Oh^d_\bqZ
5. Ba[jZgb_ FboZbeZ Jhffgjhc^Z_fkZdjhf kh[hj_

Hl_l

<

1. <_^_gbjh^jZajkldb
2. GZqZeh kiehrghc dhee_kdkk\JbaZpbb \
3. JZaj_r_gb_ dj_klvygZf \uoh^blv ba h[sbgu b kha^Z\Zlv
4. >_dj_lahfe_
5. <_^_gb_ ijh^gZeh]Z Hl_l

<j_fy gZ j_r±^ghb_ fb.gml

6. AZ^Zgby gZ khhlg_k_g^bZgg\umo jy^h\

<hiehsZy \ k_[_ \k_ iheh`bl_ev^gu\msq]hlulbiijZ_ lZdb_ aZ
g_bf_xl ijbkmsbo bf g_^hklZldh\ < dZq_kl_ h^gh]h bla jy^h
kh[ulbc

Пример:

Khhlg_kbl_ bfy bklhjbq_kdh]h ^_yl_ey b jh^ _]h ^_yl_ev
_klv ebrgyy oZjZdl_jbklbdZ

Bklhjbq_kdbc ^_yl_ev

1. FboZbe <hjhlugkdbc
2. Nz^hj Dhgv
3. B\Zg l_j_k_lh\
4. B\Zgz^Nhjh\
5. :g^j_c Qhoh\

Jh^ ^_yl_evghklb

: :\lhj ihkeZgbc h g_h[oh^bfhklb mkbe_gby \eZklb]hkm
; lhedh\h^_p
< :jobl_dlhj kha^Zl_ev dj_ihkl_c
= Kha^Zl_evmPZlpv
> H^bg ba jmdh\h^bl_e_c hijbqgbgu ? Jmkkdbc i_j\hi_c
<j_fy gZ j_r±5g±b_fbg.ml

7. L_dkljhkimkdZfb

Ijb khkleZ_gbb lZdh]h l_dklZ \Z`gh mq_klv \hafh`ghklv nh
hl_lh\ G_ ke_^m_l \f_klh l_dklZ k ijhimZkdgZZafb\Zb_kfhe_dkah\Z
khrb[dZfb wlh bkdZ`Z_l ij_^klZ\e_gby mqZklgbdh\ h[bklhjl
ijhlb\hj_qbl p_eyf hebfibZ^u

Пример:

AZihegbl_ ijh[_eu \ l_dkl_ Hl_l hnhjfbl_ \ \b^_ i_j_
khhl_lkl\mxsbfb ghf_jZfb

lulZykv gZclb k_[_ \g_rgxx ih^^_j`dm pZjv <Zkbebc
\Gh\]hjh^ k\h_]h ie_fyggbdZ BBBBB BBBBB qlh[u ihiu
baBBBBB BBBBB ijZ\bl_ev dhlhjhc gZoh^beky \h \jZ`^
ie_fyggbdhf ihevkdbf dhjhezf Kb]bafmg^hf ,,, ;ue aZdexqz
aZmklmidm]hjh^Z BBBBB BBBBB b agZqbl_evgu_ ^_g_`
Jhkkbb [uje_^iZg dhjimkgZhbfghbdh\ <f_kl_ k wlbf dhjimkhf pZj
\uklmibe \ ihoh^ ba Gh\]hjh^Z :jfby _]h f_^e_ggh ^\b]Ze
bihkl_i_ggh _kv K__j b agZqbl_evgZy qZklv P_gljZ [ueb h
Kgy\ hkZ^m k BBBBBBBBBfhgZBklujy hg lhj`_kl_ggh \klmibe \ klh
; G Nehjy

<j_fy gZ j_r±^ghb_ fbgml \ aZ\bkbfhklb hl keh`ghklb aZ^Z

8. AZ^Zgby ih jZ[hl_ k beebkhjZqlbgbZffb

LZdb_ aZ^Zgby bf_xdgmxj_ki_pbnbdm @_eZl_evgh q
mqZklgbdZ g_ k\h^beZkv d ijhklhfm magZ\Zgbx ajbl_evg
fh[bebah\Zlv k\hb agZgby ih bklhjbb dmevlmju qlh[u ijZ\be
\hijhku

Пример:

< aZ^Zgbb ^Zxlky nhlh]jZnbb kh[hjh\ Fhkdh\kdh]h D
;eZ]h_s_ghkdbh]joZg]_evkdh]h Z lZd`_ Mki_gkdh]h kh[hjZ \h
lhdjh\Z \ Nbeyo MqZklgbdZf ij_^eZ]Z_lky hij_^_eblv dZdl
iZfylgbdh\ jZkiheh`_gu \ Dhjkfdh_\kdhf

<j_fy gZ j_r±^ghb_ fbgml \ aZ\bkbfhklb hl keyh`ghklb aZ^Z

9. AZ^Zgby gZdZjlZueba

A^_kv lZd`_ \Z`gh qlh[u j_qv reZjg_ ajjhbkl_evhghjch\iZfylb
h[h[s_f mjh\g_ agZgby bklhjbb Djhf_ lh]h ij_`^_ q_f ij_^eZ
beb ih j_ijh^mdpbyf hj]ZgbaZlhju hebfibZ^u\ ^lhf`gu qlhm[
iheb]jZnbq_kdb_ \hafh`ghklb \k_o iehsZ^hd ijh_^_gby rdh
jZki_qZlZlv wlb fZl_jbZeu \ gZ^e_`Zs_f dZq_kl_

Пример:

<uihegbl_ aZ^Zgby ih dZjl_ Jhkkbb \lhjhc iheh\bgu ;9,,

hl_l fZdkbfZevgh6).c [Zee

1. H[hagZqvl_ klhebpm Jhkkbb
2. H[hagZqvl_ kmohimlgmx]jZgbpm Jhkkbb
3. H[hagZqvl_]jZgbpm l_jjblhjbb hlhr_^r_c d Jhkkbb ih lhkiheb.lhc
4. H[hagZqvl_]jZgbpm l_jjblhjbb hlhr_^r_c d Jhkkbb ih lhkiheblhc
5. H[hagZqvl_]jZgbpm l_jjblhjbb hlhr_^r_c d Jhkkbb ih lj_lv_fm lhkiheb.lhc
6. H[hagZqvl_]jZgbpm l_jjblhjbb hlhr_^r_c d Jhkkbb lmj_pdbo \hcg \lhjhc iheh\bgu ;9,,, \

<j_fy gZ j_r±^hb_ fbgml \ aZ\bkbfhklb hl keh`ghklb aZ^Z

10. AZ^Zgb Zy Zg Z^ehdamf_glh\

H[sbc ih^oh^ ijbgyluc \h \k_o hebfibZ^Zo khklhbl \
aZ^Zgbc [ueh fZdkbfZevgh ihoh`bf mZbkkZe_v^mZxl_jeZ[hlbeb c
gZjZ[hlm klm^_glZ \ mgb_jkbl_lkdhf ijhk_fbgZj_ beb \ gZ
fgh]bo gZmdZo wlh j_rZ_lky _^_gb_f wdkhe_jbf]hglZeyZgh]dZ
gZijbf_j \khjhkkbckdbo hebfibZ^Zo ih obfbb b ih]_h]jZnb
ljm^gh hlebidhlgZvklhys_kfimkh[ghfheh^hjhkke_^h\Z]hehy]h klZlv
ohjhrbf klm^_hglhbfe_`gh]h rdheyjZ k ohjhr_c iZfylvx

<hafh`ghklv ij_^eh`blv mqZklgbdZf j_rblv j_Zevgmx aZ
dhlhjud_Z`^uc ^_gv \klZxl i_j_^ ijZdlbdmZxsbf_fbkkelv^b m bklh
<i_j\mx hq_j_^v jl_qhv[bZ^gZeba_ bklhjbq_kdZ±]hkghklhqeb[h]h
gZmqgh]h agZgby h ijhrehf

GZ hebfibZ^_ hl mkqZhk^lghbdZklhljjhgjm_lky g_ ijhklh khhl
ijhqblZgguc l_dkl k l_fb beb bgufb kh[ulbyfb dmjkZ Z kZfh
ihfhsvx g_qlh jZg__ _fm g_ba_klgh_khk^_jmgdhc gl_hjihZuu
Z\lhju aZ^Zgbc dhlhjbq_b\kZhkkj_\ghbfZgb_ mqZklgbdZ g±Zh ZgZ
f_edbo ^_lZegZcklhlys_fm m^Zqgu bf_ggh l_ aZ^Zgby \uihegj
fh`_l mlhqgblv k\hb ij_^klZ\e_gby h lhf beb bgh_flvdjmZdhf ijh
\Z`gu_ _]h q_jlu h[uqgh g_ gZoh^ysb_ hljZ`_gby \ mq_[gb
bf_ggh lZdh_ gqgmhij\sb^_gb_ k\h_]h ij_^f_lZ ihagZgby b hle
mqgh]h imbklZvqbgZxs_]^beh_lZglZ

Ih h[s_fm ijZ\bem aZ^ZqZ mkqZZkZfbidj_^_evgh dhgdj_lg
\hijhk bf_ggh hl_l gZ g_]h b gm`gh ba\e_qv ba ^hdmf_glZ
^Zlbjh\db hiqgg^u_oe hlju\dh\ l_dklZ yhfij_k^Z_e_fghb`gh gZ dZjl_
ijhbahreb l_ beb bgub_ lk^h[ulby

Пример:

Ijhqblz_c ^hdmf_gl

©?]h <_ebq_kl\h Bfi_jZlhj <k_jhkkbckdbc k h^ghc klhj
Bfi_jZlhj Yih±gkb^jm]hc [m^mqb h^mr_\e_gu `_eZgb_f \hkklZ
[eZ]Zfb fbjZ ^ey bo kljZg b gZjh^h\ j_rbeb aZdexqblv fbjgu
k]h k\hbfb mihegh fhq_ggufb Z bf_ghgh Bfi?]jZlhj<bkq_jhk\kbckd
?]h<ukhdhij_\hkoh^bl_evkl\h] K_j]_y -kbldj_lZkj\h_b]hijk^Zk^Z
Dhfbl_lZ fbgbkljh\ Jhkkbckdhc bfi_jbb b ?]h lj_\hkoh^bl_
Jha_gZ dk\ha\]hqZcgh]h b iheghfhqgh]h ihkeZ ijb zfgjbodZg
RlZlZo ?]h <_ebq_kl\h Bfi_jZlhj Yihgkboh^bl_evkl\h [ZjhgZ

XlZjh XkZffb k\h_]h fbgbkljZ bghkljZgguo ^_e b ?]h
LZdZobjZ Dh]hjh XkZfqfb_a\ukdZ_cgh]h ihkeZggbfdZgbh]ih fbgbkl
ijb:f_jbdZgkdbo kghg_^obgRlZlZo dZdh\u_ ih jZaf_g_ k\hbo
gZc^_gguo \ gZ^e_`Zs_c nhjf_ ihklZkdZlbeb ke_^mxsb_

1. GZah\bl_]h^ ih^ibkZgby ^Zggh]h ^h]h\hjZ [Zee
2. Ih^ dZdbf gZa\Zbgab_fkhgg" [Zee
3. DZdmx \hcgm hg aZ_jrbe" [Zee
4. Ihq_fm \ ^hdmf_gl_ mdZaZg ij_^klZ\bl_ev KR:" [Zee
5. GZah\bl_ mkeh\by ^Zggh]h ^h]h\hjZ ^h [Zeeh\

11. JZaj\gmluc ibkvf_gguc hl_l

@_eZl_evgh qlh[u nhjfmebjh\dZ l_f \Zadfh`gjh_k^ivhejZh]\Z_ejZl
g_ lhevdh hkgh\gu_ agZgby ih rdhevghfm dmjkm bklhjbb g
aj_gby ih \u[jZgghc l_f_ mf_gb_ mqZklgbdZ \ukdZaZlv b Zj]
ih ^Zgghfm \hijhkm MqZklgbdZf ij_^eZ]Z_lky jZaj\gmhuicg_k
hl_l ibr_lky ih h^ghc ba_\fu[jZgguo

L_fu g_ f_g__ ^he`gu ho\Zlu\Zlv hkgh\gu_ i_jbh^u bk

- i_j\Zy l_±kZ^j_\g_crbozg\j^_f k_j_^bgu ;9,
- \lhjZy l_±kZk_j_^bgu ^9,dhgpZ\;9,,,
- lj_lvy l_±kZX\
- q_lzjlZy_fZ±k gZqZeZ ;; \ ^h gZ_kflhgyb_]h

<hl ijbf_ju \hafh`guo l_f

1. <ebygb_ Ahehlhc Hj^u gZ jZa\blb_±>9j_\\g_c Jmkb \ ;,,,
2. l_ljh\kdb_ j_nhjfu b bo hp_gdZ bklhjbdZfb b kh\j_f_gg
3. <hcgZ j\ebygb_ gZ jZa\blb_ Jhkkbb \Xi;_j\hc iheh\b
4. ©Hll_i_evz^\ebygb_ gZ jZa\blb_ dmevlmju

<j_fy gZ \uihe±gg_gb_g__ fbgml

2.4.

< wlhf jZa^_lky ^dZZldZy oZjZdl_jbklbdZ hkgh\guo lbih
aZ^Zgbc \ujZ[hlZgguo fgh]he_hgbcibjZZdlbdmdZau\Z_lky gZ
keh`ghklb k\yaZggu_ k bDoZ`k^uac^Zhgjhk dhfie_dlZ aZ^Zgbc
h[yaZl_evgh khijh\h`^Zlvky mdZaZgb_f dZdh_ fZdkbfZevg
fh`_l ihemqblv mqZklgbd aZ hl\_l Z \ aZ]heh\d_ gm`

Zkbe Zvgc Ze aZ_kv lmj < dexqZo lZd`_ zdh`ghjhqbkZlv g
hkgh\Zgbb dZdbo djbl_jb_\ mqZklgbd ihemqZ_l aZ dZ`^h_
qZklv \hafh`guo [Zeeh\ beb ghev

Ke_^m_l h[jZlblv \gbfZgb_ gZ lh qlh[u nhjfmebjh\db
^\mkfuke_gghklb \ lhf \ dZdhc nhjf_ ^he`_g [uklevbjm_q^kZlyeg
^he`_g gZa\Zlv dhgdj_lgu_ \Zjb Zgkeu_^hml_lZih^]hlh\blv lZ[

1. L_klh\uhijhku

Ijhkl_crZy nhjfZ ijh_jdb L_akgZ\ub_c \hijhku [aZZdxjulufb
kij_^eh`_ggufb \ZjbZglZfb hl_lh\ beb hldjulufb mqZklgbc
hl_l kZfhklhyl_evgh ljb bhklidhjeuvaWh\Zgkbhg_h[oh^bfh klj_fblv
dfZdkbfZevzdhcq nhjfmebjh\d_ aZ^Zgby b[h \ ijhlb\ghf kem
klhedgmlfvkly`kkl\hf keh`ghkl_c ijb ijh_jd_ k\yaZgguo k ihy\
ijZ\bevguo hl_lh\ >Z\ lZdhc hl_l mqZdklgdpldh aZidhZekghmex anZ[^Z
b g_ ij_^ijbgbfZ_l mkbebc ^ey ihbkdZ [he__ lhqgh]h j_r_gby

Пример:

GZ\hijhk©Dlh gZkgihjZ`_gbmj_lpdbf \hckdZDfhajebm^`±\"f^a_klh
ij_^mkfhlj_ggdhe]xhqhf hl_lZ k©m\<hjh\^aZky hl\:l©Jmkkdy Zjfby^a
Hl_j]Zy wlhl hl_lzl `xhjbfZ^eZvgh_ hkgh\Zgb_ ^ey Zi_eeypbb

>Z`_ \ l_klh\uo \hijhkZo y\eyxsboky kZfuf ijhkluf ba
aZ^Zgbc ke_^m_l klj_fblvky moh^blv hl ijhklhc ijh_jdb agZ
bo lZd qlh[u ihbkd hl_lZ ij_^iheZ]Ze we_f_gl kZfhklhyl_evg

Пример:

< [bl_ gZ <hjdke_ mqZkl\h\Zeb
: <blh\l Y]Zceh FZfZc LholZfur
; <blh\l LholZlfufhDjmlem] ?^b]_c
< >fbljbc >hgkdhc FboZbe L_jkdhc =_^bfbg Ma[_d
= B\Zg ,,, -=bj]eb:ofZl :e_dkZg^j DZabfbjh\bq
GZ j_r_gb_ lZdh]h aZ^Zgby mqZklgbdh\h^\bkeZjfbbgmdueZkkZ

2. L_klh\uc \hijhk k g_kdhevdbfhl\ijZZbevgufb

< hlebqb_ hl ijhkl_cr_]h \hijhkZ lZdh_ aZ^Zgb_ gZp_e

ihiulZeky jZkkfhlj_lvzgbhj_^y\e_gb_ beb wihom k jZaebqguo k
aZqZklmx mqZklgbdZf [u\Z_l g_ijhklh hkhagZlv qlh l_ beb
^_yl_eb dmekvhmjj_uf_ggbdb

Пример:

GZah\bl_ ohayckl_ggu_ h[t_dlu ihkljh_ggu_. \ ]h^u i_j\
LjZgkkb[
:\lhfh[bevguc aZ\h^ \ Lhevyllb
FZ]gblh]hjkdbc f_lZeemj]bq_kdbc dhf[bgZl
FZjbbgkdZy \h^gZy kbkl_fZ
>g_ijh]wk
KlZebg]jZ^kdbc ljZadZl\hj^guc

GZ j_r_gb_ lZdh]h aZ^Zgby mqZklgbd\h^bkkZjfbgmdeZkkZ

3. Jy^u gZ hij_^_e_gb_ ihkqjhbiZbyo

MqZklgbdmy^Zh]bq_kdbc jy^ b ij_^eZ]Z_lky hij_^_eblv
hg ihkljh_g LZdhc lbi aZ^Zgbc kehv^emrhcijbkl_hgjyhl`ghklvx ihk
ijZdlbq_kdb ex[h_ aZ^Zgb_ fh`_l bf_lv fgh`_kl\h ijZ\bev
g_h[oh^bfZ ij_^zlZvghmqjfmebjhijdZZ

Пример:

GZ \hijbkh dZdhfm ijbgpbim h[jZah\Zg jy^ JKNKJ ±MKKJ
\f_klh ij_^ZihZe_fhjlh_lZKh_lkdb_ j_kim[ebdb h[jZah\Z\rb± KKK
^Zlky hl:\©l_kim[ebdb KKKJª

<j_fy gZ j_r±3gbfbg.ml

4. Jy^u gZ \dex±gZgbdexq_gb_

Lbi aZ^Zgbc hq_gv [ebadbc d ij_^r_kl\mxs_fm H^g
\hafh`gug_h`b^Zggu_ hl_lu y\eyxsb_ky ijZ\bevgufb g_ l
nhjfZevghfm ijbgpbim KhklZ\bl_eb aZ^Zgbcv ^\hea`fhu`gihjkl^vmb
ihy\e_gbdyexqZo

Пример:

Ba jy^Z ©Nhlbc =_jfh]_g NbeZj_l :\\Zdmf Gbdhgª \
^he`_g [ukvdebzgq :\\Zdmf gbdh]^Z g_ aZgbfZ\rbc ihkl ij_^k
ljZ\hkeZ\ghc p_jd\b H^gZdh \hafh`gu b ^jm]b_ j_r_gby N
a^_kv g_ ijbgZ^e_`Zsbc d ;9,, \ NbeZj_l dZd _^bgkl_ggu

^j ljZ\bevg__ [ueh [bjhkhZhjvm\eijzkkq_ gZijbGf_Dh ba gZa\Zggu
ebp gbdh]^Z g_ ijbgZ^e_`Ze d qbkehmª p_jdh\guo b_jZjoh\
<j_fy gZ j_r±3gbfbg.ml

5. Ojhgheh]bq_kdb_ ihke_^h\Zl_evghklb

MqZklgbdm ij_^eZ]Z_lky jZkklZ\blv \ ojhgheh]bq_kdh
kh[ulbW lhl lbi aZ^Zgbc kijZ_^eb\h kqblZ_lkjym^hg^ugbZfd b^aeykZ
mqZklgbdh\ lZd b ^ey `xjb Hrb[dZ \ hij_^_e_gbb \j_f_gb
2l d lhfm qlh ihke^h\Zl_evghklv gZjmrZ_lky ?keb dexq
kh[ulb_ ^he`gh vgkZyohgZblkljh]h zbgjh^f_e_kl_ \ ihke_^h\Zl_evghk
hdZau\Z_lky iheghklvx g_ijZ\bevguf GdZijbyf^hd d©:x<q=>^:Z
Hrb[b\rbkv ebhv`ghkf kh[ulb_f ©:ª mzdZjk_lg_bgdb_^Z©:;<=>ª k lh
aj_gby nhjfZevghc ijh_jdb khhjdZy iylv

Ih^h[gu_ aZ^Zgby ij_^klZ\eyxlky hijZ\^Zggufb lhevdh
gZa\Zggu_ kh[ulby l_kgh b g_ihkj_^kl_ggh k\yaZgu ^jm] k
g_`_eZl_evgh qlh[u \ gbo ijbkmlkl\h\Zeh [hevr_ we_f_glh\

Пример:

Hij_^_ebl_ ojhgheh]bq_kdhf ihjyg^kdbkh[ulbc AZg_kbl_ [md_ggu_
kh[ulbc \ ojhgheh]bq_kdhf ihjyg^dmx\lZ[e\b^m [Zee aZ
ijZ\bevguc hl_l fZdkbfZ±e2y.guc [Zee

1.
Z ihkljhcdZ kl-]hjDh\ZZhckd_
[khhjm`_gb_ p_jd\hGhlhjhbghbudZo
\ ihjkhcdZ a^Zgby >\d_hgZe^_pZhkhZgld_ll_j[mj]_
] kljhbl_evkl\h >fbljb_\kdh]h kh[hjZ \h <eZ^bfbj_
^ khhjm`_gb_ [_ehdZFh_gdhkdh\kdhj]hfey
_ \ha_^_gb_ DZaZgkd_h]h[mh][hjZ \
2.
Z:mkl_jebpkdjZ`__gb_
[=j_g]Zfkdjh`__gb_
\ kjZ`_gbh_khjh\DZhjnm
] kjZ`_gb_ ijb Phjg^hjn_
^ [hc iR}b\Zj^bg_
_ Q_kf_gkjZh_gb_

<j_fy gZ j_r±^gh_ fb.gml

6. AZ^Zgby gZ khhlg_k_gb_ ^\mo jy^h\ ^Zgguo

<hiehsZy \ k_[_ \k_ iheh`bl_evgu msq]hlulbiijZ_ lZdb_ aZ
g_bf_xljbkmsbo bf g_^hklZldh\ < dZq_kl_ h^gh]h ba jy^h\
kh[ulbc

Пример:

Khhlg_kbl_ we_f_glu ijZ\h]h b e_\h]h klhe[ph\ lZ[ebpu
ebrgyy oZjZdl_jbklbdZ ih [Zeem aZ dZ`^h_ khhl±4.lkl\b_ fZ

Fig hhj	Mehb_
1. =_hj]b_\kjZdlZl	: Djuf h[ty\eyeky g_aZ\bkbfuf h
2. GbrlZ^lkdhj\hj	; Jhkkby \ha\jZsZeZ Lmjpbb :ah
3. Dmq+DZcgZj^`bckdbc	< < khklZ\ Jhkkbb \oh^beZ ljZ\h
ljmlkdbc ^h]h\hj	= lhi^hl_dlhjZl Jhkkbb ^h[jh\hev hloh^beZ <hklhqgZy =jmaby
	> < khklZ\ Jhkkbb \oh^beZ ljb[Z

1	2	3	4

<j_fy gZ j_r±gbf_bg.ml

7. L_dkljkhimkdZfb

ljb khklZ\e_gbb lZdh]h l_dklZ \Z`gh mq_klv \hafh`ghklv
hl_lh\ kGe_^m_l \f_klh l_dklZ k ijhimkdZZfbgZbakihZevfaulodZlv l
khrb[dZfb wlh bkdZ`Z_l ij_^klZ\e_gby mqZklgbdh\ h[bklhjl
ijhlb\hj_qbl p_eyf hebfibZ^u

Пример:

AZihegbl_ ijh[_eu \ l_dkl_ lHl\\l \h^hjfb_j_qgy we_f
ih^khhl_lkl\mxsbfb ghf_jZfb [Zee aZ dZ`^uc ijZ\bevgh a
fZdkbfZevguc±11.Zee

Bkihevamy i_j__k kbe b nZdlhj \g_aZighklb (1)_ghq]v gZ
[_ah[ty\e_gby \hcgu yihgkdbc nehl h[klj_eye jmkkdmyx wl
_____(2) _____ ;ueh ih\j_`^_gh jmkkdbo dhjZ[ey Mljhf yg
ihjlm Q_fmevih yihgkdZy wkdZ^jZ ZlZdh\Zdje_Zck\Z j(3)mkkdbo dh
bdZghg_jkedlm^xdm (4) _____ < g_jZ\g-ffbgmlghf [hx jmkkdb_ fh
ijhy\beb qm^_kZ ojZ[jhklb gZ hb[dhbpuekhm^\Zqol\hjjm^f_gvr_
gZyihgkdbo H^gZdh dhjZ[eyf ijhlb\gbdZza[gue_b ighZjg_k^_gbyk_Zvl
yihgkdbc dj_ck_j ihlhie_g Kbevguc ih`Zj ijh[hbgu ih
mkljhckl\Z g_ ihjah\hZylevky d]eZ\guf kbeZf b h[Z dhjZ[ey [u
L_f g_ f_g__ dhfZg^mxsbc Lbohhd\bZ-gZk^dbjZeeh(5)f_____
]hlh\beky d Zdlb\guf hi_jZpbyf gZ fhj_ b aZsbl_-fehZjkdhc jh
[Zau \ j_]bhg(6) _____ fZjhZg \u_e k\hx wkdZ^jmc gZc^g_rlgh[u
\klmiblv \ [ihjblk\gbdhf b aZfZgblv _]h dhjZ[eb ih^ h]hgv [
H^gZdh \ kZfhf gZqZe_ [hy _d]hjZn[eZv]fZ(7)gkdbo ih^hj\Zeky gZ fbg
b \ l_q_gfbb_gml aZlhgme lh]b[eqZZk[lhvevdhZfyZg^vurlZ[k Z lZd`_
gZoh^b\rbckhyjlgmZm^h`-g[bZdZebkl (8) _____ lhkevw_lh]h jmkkdhblc
i_j_ze dh[hjhg<_____(9) _____] Jhkkby ihl_ji_eZ kZfh_ djmigh_ i
fhj_ \ wlhc \±hdhgd_hehkljh\Z___ (10) _____. Lh]^Z [ueZ jZ-ay[blZ
Lbohhd_Zgkdy wdkhdfZ^gj^Zh\iZ(gb-Z^\fbbjZ_eZ (11) _____
<j_fy gZ j_r±^ghb_ fbgml \ aZ\bkbfhklb hl keh`ghklb aZ^Z

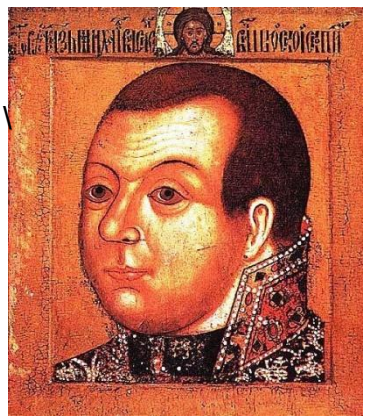
8. AZ^Zgby ih jZ[hl_ k beebkhjZdbgZffb

LZdb_ aZ^Zgby bf_xdgmkj_\i_pbnkd@me Zl_evgh qlh[u j
mqZklgbdZ g_ k\h^beZkv d ijhklhfm magZ\Zgbx ajbl_evg
fh[bebah\Zlv k\hb agZgby ih bklhjbb dmevlmju qlh[u ijZ\be
\hijhku

Пример:

Bah[jZ`_gby dZdbo bklhjbq_kdbo ^_yl`_e'_Mdjz:`bklZ\e_gu

1) bonZfbebb



2) kn_jm bo ^_yl_evghklb

3) ijbf_jgh_ \j_fy bo ^_yl^_evghklb

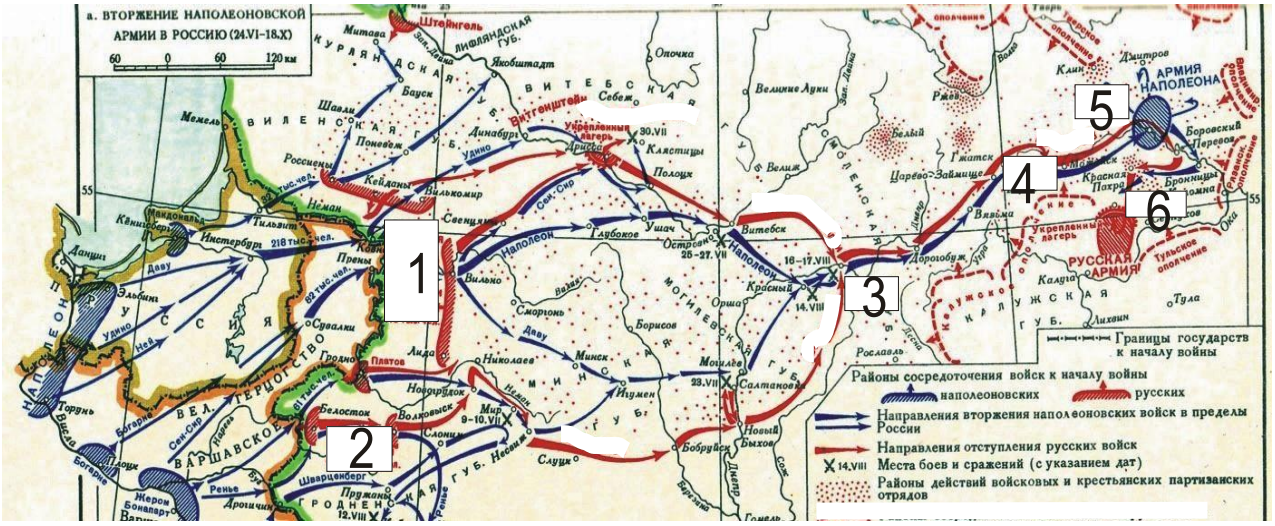
[Zeeh\ aZ dZ`^uc hl_l fZdkbfZ(6)evguc [Zee

1 2

<j_fy gZ j_r±^ghb_ fbgml \ aZ\bkkbefhkgjhkhlb aZ^Zgby

9. AZ^Zgby gZdZjgZeba

A^_kv lZd`_ \Z`gh qlh[u j_qv reZjg_ ajjhbkl_evhghjch\iZfylb h[h[s_f mjh\g_ agZgby bklhjbb lhwlhfm ke_^hm_llubagZ_]dZhvhjau \g_ihkj_^kl_gghf \b^_ fh`gh gZdZlbeZkrZdchevgZùgh lZd`_ mqblu bgl_j_kmxsbcky bklhjb_c rdhevgbd g_zg\k_]^Zhjkhlmevb `Djkhbe l ij_`^_g_f ij_^eZ]Zlv aZ^Zgby ih dZjlZf eb ih j_ijh^mdpbyf hj ^he`gu m[_^blvfkyql\hlhiheb]jZnbq_kdb_ \hafh`ghklb \k_o iehs fmgbpbiZevgh]h wlZiZ iha\heyxl jZki_qZlZlv wlbdZfdZl_kjbZeu \



Пример:

<uihegbl_ aZ^Zgby ih dZjl_ ih [Zeem aZ dZ`^uc we_f [Zee6).

1) MdZ`bl_ nZf]b_egb_hjZeh\ dhfZg^h\Z\rbo jmkkdbfb \b ckdZ gZdZjl._

2) MdZ`bl_ gZa\Zgbzgygugo Zki_megdlh\ k dhlhjufb k\yaZgu kh[ulby ^Zggh]h wlZiZ \hcgu ± gZ dZjhln ju

1

2

3

4

5

6

<j_fy gZ j_r±^ghb_fbgml \ aZ\bkbfhklb hl keh.`ghklb aZ^Zgb

10. AZ^Zgby gZ ZgZeba ^hdmf_glh\

H[sbc ih^oh^ ijbgyluc \h \k_o hebfibZ^Zo khklhbl \ aZ^Zgbc [ueh fZdkbfZevgh ihoh`bf mZbkkZee_v^dmmZxl_jeZy[hlbeb c gZjZ[hlm klm^_glZ k\blmlgkbd\hfj ijhk_fbgZj_ beb \ gZmqghc eZ fgh]bo gZmdZo wlh j_rZ_lky _^_gb_f wdkie_jbhf]hglZmejvZgh]dhZ gZijbf_j \khjhkkbckdbo hebfibZ^Zo ih obfbb b ih]_h]jZnbl ljm^gh hlebidhgZvklhys_fm kihkhe[hh^h]hfhbkke_^h\Zh]ehy klZhlv\ ohjhrbf klm^_glhfe_h`lgh]h rdheyjZ kZofhyjlx_c

<hafh`ghklv ij_^eh`blv mqZklgbdZf j_rblv j_Zevgmx aZ dhlhjud_Z`^uc ^_gv \klZxl i_j_^ ijZdlbdmxsbf lbvkkbe_m^h\kZlhjeb_dh <i_j\mx hq_j_^v jZlqv[bZ^gZeba_ bklhjbq_kdh±]hkghklhqebx[hZ]h gZmqgh]h agZgby h ijhrehf GZ hebfkihZ^ghdhlkhhjZkdg_bkdyZ g_ ijhklh khhlg_klb ijhqblZgguc l_dkl beb m\b^_ggmx \hkijhbazg_^uc jbkmghd kebl_bfbufbb kh[ulbyfb dmjkZ Z kZfh \uykgblv k bo ihfhsvx g_qlh jZg__ _fm g_ba_klgh_ K ^jr g_ijZ\u l_ Z\lhju aZ^Zgbc dhlhju_ khkj_^hlhqb\Zxl \gbfZgb dZd-bh f_edbo ^_lZeZkklhys_fm m^Zqhgu_ba_g^Zgby \uihegyy c mqZklgbd fh`_l mlhqgblv k\hb ij_^klZ\e_gby h lhf beb bghf dZd-bh \Z`gu_ _]h q_jlu h[uqgh g_ gZoh^ysb_ hljZ`_gby \ m _^v bf_ggh lZdh_zgg_hmijvbs^_gb_ k\h_]h hiajZfgbZ b hlebq gZklhys_jhhjhq imbkgZvqbgZxs_]h hl ^be_lZglZ

Ih hiulm j_^dkymk^Zmki_ohf bkihevah\Zlv h[s_ba_klgu_ iZfylgbdb QZs_ lZdb_ g_aZ_a`_ggu_ ih\hjhlu l_fu lj_[mx ^hdmf_glh\

Ih h[s_fm ijZ\aZ^ZqZ klZ\bl i_j_Zfhmj_^klevgh dhgdj_lg \hijhk bf_ggh hl_l gZ g_]h b gm`gh ba\e_qv ba ^hdmf_glZ

^Zlbjh\db hizg^u_e hlju\dh\ l_dklZ yhfj_k^Ze_fghbgh gZ dZjl_
ijhbahreb l_ beb bgu_lkh[ulby b

Пример:

ljhqblZcl_ ^hdmf_gl

©lhg_`_ ohly [u ih ij_`gbf mdZaZf dmi_pdbf ex^yf ^_j_\
aZij_s_gh b lh]^Z lh aZij_s_gb_ [ueh lh]h jZ^b qlh hgb
]hkm^Zjkl_gghc ^jm]bo gbdZdbo aZ\h^h\ g_mdfZaZf ZdZgug\k
\b^gh qlh fgh]b_ dmi_pdb_ ex^b dhfiZgbyfb b hkh[gh fgh]b
]hkm^Zjkl_gghc ihevau aZ\h^blv \gh\v jZagu_ aZ\h^u Z b
`_e_agu_ b]hevgu_ b ijhqb_ kbf ih^h[gu_ d lhfm `_bbr_e
r_jklygu_ nZ[jbdb ba dhlhjuo fgh]b_ m`_ b \ ^_ckl\h i
iha\hey_lkygZkbbf mdZahf ^ey jZZdgho`_agZb\h^h\ dZd reyo_lkl
dmi_pdbf ex^yf d l_f aZ\h^Zf ^_j_\gb ihdmiZlv g_\ha[jZgg
fZgmnZ-ddlmej_]bb lhdfh ih^ lZdhx dhg^bpb_x ^Z[u l_ ^_j_\gb
l_o aZ\h^Zo g_hlemqgh B ^ey lh]h dZd reyo_lkl\m lZd b c
[_a aZ\h^h\ hlgx^v gbdhfm g_ ijh^Z\Zlv b g_ aZudkeZu^ugbZlvZ
d_f g_ dj_bblgvZudmi lZdbo ^_j__gv gbdhfm g_ hl^Z\Zlv jZa
g_h[oh^bfuo k\hbo gm`^ l_ ^_j_\gb b k l_fb aZ\h^u ijh^Z\Z
iha\he_gby b[_fjZgmnZ-ddlmej_]bb : _`_eb dlh ijhlb\h k_]h ihkln
\k_]h lh]h eb[_khlvhjhlgh

: _`_eb dlh [m^_l aZ\h^u aZ\h^blv lhdfh ^ey ebpZ fZeu
^_j_\gb dmiblv b lZdh\uo \ufure_ggbdh\ ^h lhc ihdmidb h
kfhlj_lv lh]h gZdj_i-ddlmfZg[mj]Z-ddlmej_]bb Z _h\ue_b yZydky b b
ihmkfhlj_gbx rljZnh\Zlv hlgylb_f \k_]h ^\b`bfh]h b g_^\b`bfh]

<hijhku b aZ^Zgby [Zeeh\

1. DZd gZau\ZeZkv dZl_]hjby dj_klvyg h[jZah\ZggZy wlb
2. < dZdhf]h^m [ue ijbgyl mdZa" [Zee
3. lj_^klZ\bl_eyf dZdbo khkeh\guo hkjvmiihdZmajZ_lvZe^_j_\g
dj_klvyg ih ^Zgghfm mdZam" ^h [Zeeh\
4. DZdZy ba wlbo]jmii jZg__ g_ bf_eZ lZdh]h ijZ\Z" GZ
l_dklZ ^hdmf_glZ h[tykgbl_ ihq_fm wlh ijZ\h [ueh _c ^Z
ijbqb.g [ZeeZ
5. GZ hkgh_ ^hdmZfahlbZ_g hdjZgby gZ ijZ\h kh[kl_g

\hlghr_gbb ^_j__gvzgigbbh[jh_l^Zggh.fm [mZdeZeaZm

6. DZdZy kZgdpby ij_^mkfhlj_gZ \ mdZa_ \ hlghr_gb h]jZgbq_gbc" [Zee

7. DZdhc]hkm^Zjkl_gguc hj]Zg ^he`_g [ue\ukhee_g_bgv_aZ ^Zggh]h mdZaZ" [Zee

8. GZ hkgh_ agZgbc dmjkZ ijb_^bl_ dhgdj_lgh_ ihke_^ mdZaZ [Zee

11. Bklhjbq_kwdkhk_

DZd ijZ\beh bklhjbq_kzdkhy_ lwekkdh^Z \uimkdguo deZkk
j_r_gbx f_lh^bq_kdhc dhflbkikjbbeZjhZlvky b kk_ dMeqZZklgbdZ
ij_^eZ]Z_lkyu[hgjZ g_kdhevdh \ukdZau\Zgbceb bkkhmjjbdfhggbbdh
hlghkysbokZyaedbqguf i_jbh^Zf jmkkdhc bklhjbb b ij_^eZ]Z
Zj]mf_glbjh\Zlv k\hx ihabpbx ih ^Zgghfm \hijhkm

L_fu g_ f_g_^he`gu ho\Zlugjhlvguhk i_jbh^u bklhjbb J
k^j_\g_crbo zgj_fh kfh\jggghklb dZkZlvky jZZakeibqdghu\o khpbZev
wdhghfbq_kdZy iheblbq_kdZy bklhjby bklhjby dmevlmju g
ij_^klZ\eylv ba k_[y \ukdZaduh\Zgbeyb bkkhmjjbf_ggbdh\ kh[ulbc
\ujZ`_gghc ebqghklghc hp_gdhc

Ijbf_jgul_fu wkk_

1. G_gZ\bklgh_ b]h hklZgh\beh dmevlmjgh_ jZa\blb_ Jm
qlh b ihkem`beh ijbqbghc hlkhlZ\\Zgbjycbdhbjkgb : G Dbjibqggbd

2. Hlebqbl_evghc hkh[_gghklvx Kfmlu y\ey_lky lh qlh \
\uklmiZxl \k_ deZkku jmkkdhjHh hDsxkql\Zkdbc

3. <_d ;9,, ^Ze @fZlljmjbaZe[_a dhlhjh]h hg g_ kfh] [u. b rZ
B E :g^j__\

4. AZjh`^_gb_ ^_dZ[jbafZ ^klkyblyelZlggyuyobh[s_kl\ Z \ke_
\hkklZgb_ ^_dZ[jy jzag[ufebkkofijlhfZfb yg\g[he]Zh]hihemqb
\iheblbq_kkdjhf_ Jh.kkbkF bjhg_gdh

5. Iheblbdz :e_dkZg^jZ ,,, iheblbdZ dhglzgjgunbjfkjgnZ
ijh^ebeZ kms_klg\hhZjgZbg_bq_gghc fhEgZjoAeZoZjh\Z

6. < [bl_ ih^ Fhkd\hc [ueZ aZeh`_gZ ijhqgZy hkgh\Z
jZa]jhfZ nZrbklkdhc. ==_jDZg@bmdh\

<j_fy±g_ f_g__ fbgml

12. JZazj\gmluc ibkvf_hglgulc

Wlhl lbi aZ^Zgby fh`_l [ulv bZkqjhkl\ahZZegvl_jbgZhjbqu_kdhfm
wkk_ ^ey \hajZklguo ±ZjZedeZkkc\ @_eZl_evgh qlh[u \ l
nhjfmebjh\dZ l_f lZd`_ ij_^iheZ]ZeZ \hafh`ghklv ijh_jblv g_
rdhevgh]h dmjkZ bklhjbb gh b agZgb_ ijhZaebjqZgugdhclhlqfd anjfg
mqZklgbdZ \ukdZaZlv b Zj]mf_glbjh\Zlv k\hx ihabpbx ih ^Zg
ij_^eZ]Z_lky gZ \u[hj g_kdhjeudhcl_fl_JZiab\r_lky ih h^ghc ba \

l_f

L_fu g_ f_g__ ^he`gu ho\Zlu\Zlv hkjgbhb\gJuh_kkib_jbbh^u bk

– i_j\Zy l_±fkZ^j_\g_crbo \j_f_g ^h k_j_^bgu ;9, \

– \lhjZy l_±fkZk_j_^bgu\ ^9h,dhgpZ ;9,,, \

– lj_lvy l_±f,Z; \

– q_lzjlZy l_±fkZ gZqZeZ ;; \ ^h gZklhys_]h \j_f_gb

<hl ijbf_j \hafh`guo l_f

1. <ebygb_ Ahehlhc Hj^u gZ jZJamkkbb_±X>Vj,_\\g_c

2. l_ljh\kdb_ j_nhjfu b bo hp_gdkZhbjk_lfhjbgdlZdlZfb

3. <hcgZ z\ebby_gb_ gZ jZa\bl\bi_j\hkcklbbeh\bgy_ ;,;

4. ©Hll_i_evz^\ebby_gb_ gZ jZa\ebvlbmju

Ijb hp_gd_zjgZma\h]h hl_lZ g_h[oh^bfkeb_k^cmx^sbbvo bdajbl_jb_\

1. K\yaghklv b ehjbvq_gkhkh\Zgby

2. =jZfhlghklv bkihevah\Zgby bklhjb_qf_kgbvo nZdlh\ b

3. Qzldhklv b ^hdZaZl_evghklv hkgh\guo iheh`_gbc jZ[hlu wlhfm djbl_jbx ke_^m_l ihhsjylv agZgb_ mqZk_gbdyhbkjZa_bdh\ih^Zggh\fmijhkm

KhklZ\bl_eb aZ^Zgbc ^he`gu \ dexqZo dhgdj_lbabjh\Zl ijbf_gbl_evgh d dhgdj_lguf l_fZfjZba[Zeveh\ldjm]mx

<j_fy±g_ f_g__ fbgml

**2.5. Kh\ yZ ^ Ih_ bkg -jm Hl **

y^ Ih_ Hl

1. LZeuabgZ : : Bklhjb:qM_k_dh_khw[bk±F Jmkkdh_ keh320 k

2. Obljh\> : Q_jg_gdh > : LZeuabgZ : : DZfZjZmeb ijh_dMq._ihkh[b±F Jmkkdh_ keh376 k

Ресурсы в Интернете

1. Q_jg_gdh > : <_[bgZj ^ey hj]ZgbaZlhjh\ rdhevgh]h b \k_jhkkbckdhc hebfibZ^u rdhevgbdh\ m\q_[ghf .]h^m http://vserosolymp.rudn.ru/lecture/ist.php

2. <k_jhkkbckdZy hebfibZ^Z rdhevgbdh\ ih bklhjbb A https://olimpiada.ru/activity/84/tasks

3. KZclu H<HK \ j_]bhgZ:// http://vserosolymp.rudn.ru/mm/sites/

4. AZ^Zgby \k_o wlZih\ <kHR ih bkl.hjbb

https://vos.olimpiada.ru/main/table/tasks/#table

3.

lj_^eZ]Z_lky kqblZlv qlh _kv dhfie_dl aZ^Zgbc gZ fmg
hp_gb\Zlvky bkoh^y ba h[s_ih qbkjeZwlZeejZ\aebqgu_ aZ^Zgb
ijbghkblv mqZklgbdm jZagh_ dhebZqbkhfh[Zeh\hbghaklb b
hl\hajZklghc iZjZee_eb \ dhlhjhc hgb ij_^klZ\e_gu

ljb hp_gb\Zgbb l_klh\uo aZ^Zgbc ±lbiuZàgZ^ZfgZbdkbfZev
bkdexqblv q_eh_q_kdbc nZdlhj ex[h_ ijhy\e_gb_ km[t_dlb
jZaebqbc \ lhedh\Zgbb kh^_ghZqbyZjZ\hbvfh hq_\b^guo m^
\ijh_jd_ b ih^_^_gbb blh]h\ wlh lj_[h\Zgb_ iha\hey_l
mqZklgbdZ d lhqghklb nZdlheh]bq_kdh]h agZgby qlh hkh[_
hebfibZ^u L_ogbq_kdb ijhs_ \k_]h ^h[blvkmkkh[ex^_ykbgyu
jZkij_^_e_gb_f ijhf_`mlhqguo [Zeeh\ \gmljb h[s_]h [ZeeZ
GZijbf_j igbh[oh^bfhklb aZihegblv ijhimkdh\ \ l_dkl_ h[sl
khklZ\ey_l aZ^Zgb_ lj_[mxs__ mdZaZlv Z\lhjZ gZa\Zgb
hp_gb\Z_3kjZeeZ b l i DZd ijZ\beh ihiuldb _klb kebrdhf ^j
]jZ^Zpbx gZijbf_j [ZeeZ aZ we_f_gl hl_lZ b l i ijb\h^
b m_ebqb\Zxl _jhylghklv hrb[db ijh_jyxsbfb LZd`_ g_`
jZkrbj_ghbZiZahgZ hp_gb\Zgby we_f_gbdZ ha\f_ljZy_[h]h qdjbl_
dh]^Z gZijbf_j [he__ iheguc hl_l ij_^±eZ[ZZe_lZky Zhf_gb±v ihe
\ [Zee Wlb ijh[e_fu fh]ml b ^he`gu j_rZlvky gZ mjh\g_
dexq_gbdf

AZ^ZygbbihZ\ ± ZgZeba ^hdmf_glZ bklhjbzjg_khdhc_ hwkkl_
lj_[mxl hl mqZklgbdZ \u-kfdZgaZlyjZghmeu_ km`^_gby b k g_ba[_
ih^jZamf_\Zxl m_ebq_gb_ jheb ebqghc hp_gdb ijh_jyxsbf
lj_^\b^_lv \k_ ghuafh\ZjbZglu lZdjg]mhjZa\\ukdZau\Zgby ijb khk
dexq_c [u\Z_l djZcg_ keh`gh lhwlhfe`gque_[gluv `xjbh\u hi_j_
gZkh[kl_ggh_ agZgb_ ij_^f_lZ b hkh[_gghkl_c mk\h_gby rd
we_f_glh\ ijh]jZffu ijb hijl^i_eglbbihekghlu lhqghklb m[_^b
km`^_gbc mqZklgbdZ ih ih\h^m bklhqgbdZ beb ij_^eh`_ggh]
hq_gv \Z`gh gZclb \ hl\_l zlhmqZkhgaZkevk`b\Z_l ohly [u fbg

[ZeeZ g_ aehmihlj_[eyy [md\Zevgufbih\gukfZgb_gbdefxgmc_c l
gZ lhf hkgh\Zgbb qlh \ dexqZo bf_ggh lZdbcl nhjfZebjch
ihhsjyxsbc ih^oh^ d hp_gb\Zgbx hq_gv \u]h^gh kfhljblky gZ
jZ[hl kgb`Z_l dhebq_kl\h \hafh`guo Zi_eeypbdhb dhe[m_^Z_
Zdlb\ghfm mqZkbfxbZ^ghf ^\b`_gbb Hg ijZ\be_g b ih kmlb
[he__ djmiguo l\hjq_kdbo aZ^Zgbc \ hebfibZ^guo dhfie_dlZ
rdhevgbdh\ fZdkbfZevgh lhqgh m]Z^u\Zlv \hafh`gu_ nhjfme
qlh[u ijm`^Zlv \ gbo klj_fe_gb_ d kZfhklhyl_evghc bgl_jij_lZ
beb kfukeZ ij_^eh`_ggh]h ^ey ZgZebaZ \ukdZau\Zgby

ljb hp_gd_ wkk_ ke_^m_l bkoh^blv ba ke_^mxsbo djbl_jl

1. H[hkgh\Zgb_ \u[hjZ l_fu ijhy\e_gb_ ebqghc aZbgl_
jZkdjbb l\hjq_kdbc ozZjhZkdlbylby b hkfuke_gby J_dhf_g^m_fZ
^h [Zeeh\

2. DZq_kl\h kljmdlmju hl_lZ GZebqb_ ieZgZ hl_lZ h[f
klZ\bl i_j_^ kh[hc \ k\h_c jZ[hzldhkmqZklg^hdZaQZl_evghklv
iheh`_gjbZq[hlu GZebqb_ \u\h^h\ k\yaZgguo ih kfukem k ihkl
\ul_dZxsbo ba hkgh\ghc qZklb jZ[hlu J_dhf_g^m_fZy hp_gdZ
hl[Zeeh\

3. =jZfhlghklv bkihevah\Zgby bklhjbq_kdbo nZdlh\ b l_j
hp_gdZ hl[Zeeh\

4. AgZgbjZaebqguo lhq_d aj_gby ih ba[jZgghfm \hijhkm
ijb\e_q_gb_ mqZklgbdhf km`^_gbc dZd bklhjbdh\ lZd b kh\j_
y\e_gby beb i_jbh^Z J_dhf_g^m_fZy hp_gdZ hl ^h [Zeeh\

H[sZy j_dhf_g^m_fZy hp[hldZ^hZ^ZbZy

ljb hp_gd_ jZaelhqguo]h hl_lZ g_h[oh^bfh bkoh^blv ba ke_^m

1. DZq_kl\h kljmdlmju hl_lZ GZebqb_ ieZgZ hl_lZ h[f
klZ\bl i_j_^ kh[hc \ k\h_c jZ[hzldhkmqZklg^hdZaQZl_evghklv
iheh`_gbc jZ[hzlebqb_ \u\h^h\ k\yaZgguo ih kfukem k ihklZ\
\ul_dZxsbo ba hkgh\ghc qZklb jZ[hlu J_dhf_g^m_fZy hp_gdZ
hl[Zeeh\

2. =jZfhlghklv bkihevah\Zgby bklhjbq_kdbo nZdlh\ b l_j
hp_gdZ hl [Zeeh\

3. AgZgb_ jZaelhqguo aj_gby ih ba[jZgghfm \hijhkm l
ijb\e_q_gb_ mqZklgbdhf km`^_gbc dZd bklhjbdh\ lZd b kh\j_
y\e_gby beb i_jbh^Z J_dhf_g^m_fZy hp_gdZ hl ^h [Zeeh\

H[sZy j_dhf_g^m_fZy hp[hldZ^hZ^ZbZyeh\

Khk\Zl_eaZ^Zg^bhce`gu dexqZdhgdj_lbabjw\Zhysb_djbl_jbb ijbf_gbl_evgh d dhgdj_lguf l_fZfjZba[^Zevhk\dlm]mx

4.

>ey ijh_^_gby fmgbpbiZevgh]h bkIhjbb g_h[oh^bfu

1) Zm^blhjbb iha\heyxsb_ jZaf_klblv mqZklgbdh\ lZd bkdexqbilbvku\Zgb_

2) fgh`bl_evgZy l_ogbdZ ihjZkhe_yxsZlv dhfie_dlu aZ \mklZgh\e_ggu_ kjhdb \ g_h[oh^bfhf dhebq_kl\F_bh\^bjq_[kdhf dhfbkkbb fmgbpbiZevgh]h wlZiZ j_dhf_g^m_lky aZjZg__ hl\_lkl\_gguf aZ jZafgh`_gb_ aZ^Zgbc _keb \ dhfie_dl_ we_f_glu lj_[mxsb_ hkh[uo iheb]jZnbq_kdbo fhsghkl_c beexkljZpbb

3) hj]ZgbaZlhjZf j_dhf_g^m_lky bf_lv aZiZk g_h[oh^bfuo rZjbdh\u_ jmqdb b l i >ey q_jgh\bdh\ b ^ey gZibkZgby hl h[tzfZ l_dklZ lhevdh \ klZ,jbkoheevZkmxZky ebklu [_ehc [mfZ]b ijhrlZfih\Zggul_fi_ehjf]ZgbaZlhjh\

5.

GZebqb_ m mqZklgbdZ rdhevgh]h b fmgbpbiZevgh]h bgnhjfZpbhgguo kj_^kl\ b fZl_jbZeh\ ex[h]h oZjZdl_jZ b oj_klhfZlbc kijZ\hqgbfdh\h^bmq_kghc ebl_jZlmju kj_^kl\ fh[b dhfivxl_jZ ex[uo we_mkjhqgkuo ^Z`_ \ \udexq_gghf \b^_ dZl_ ^himkdZ_lky < kemqZ_ gZjmr_gby mqZsbfky wlbo mkeh\bc mqZklgbdh\ hebfibZ^u

?keb ijh_^_gb_ hebfibZ^u [m^_l g_\hafh`gaZ\mhcqg^mf_gb wib^_fbheh]bq_kdhc\dh[klZig]ZgbaZlhjZf ke_^m_l jZkhfhlj gZokihevah\Zgb_ bgnhjfZpbhgguo l_ogheh]bc± hk lhklZgh\e_gb_ =eZ\gh]h ]hkm^Zjkl\_ggh]h kZgblZjgh]h \jZc hl ] < ©H[ ml\_j`^_gbwbik^Z_fbhheh]bq_kdo ijZ\be Kl

3598- ©KZgbl-Zvjgh^_fbheh]bq_kdb_ lj_[h\Zgby d mkljhckl\m

hj]ZgbaZpbb jZ[hlu h[jZah\Zl_evguo hj]ZgbaZpbc b ^jm]b
bgnjZkljmdlmju ^ey ^_l_c b fheh^z`b \ mkeh\byo jZk
dhjhgbZ\mkghc bgn_dpbb a&2l9,'j_r_gby f_klguo hj]Zgh\ mi
h[jZah\Zgb_f

6. [Y

>hihegbl_evgmx bgnhjfZpbx ih \hijhkZf hj]ZgbaZpbb b i
b fmgbpbiZevgh]h wlZih\ \k_jhkkbckdhc hebfibZ^u rdhevgb
ihemqblwei dljhgghc ihql_ h[jZlb\rbkv \ P_glZ^hmqx kdm^x
dhfbkkbx

Zuabg :ggZ :jdZ^v_\gZ d b g ^hp_gl bklhjbq_kdh]h nZ
F < Ehfhghkh\Z aZf_klbl_ev ij_^k_^Zl_ey -P_glZ^hmqx kdbc
dhfbkkbb ih j, dmntal@mail.ru

Qgdh >fbljbc :gZlhev_\bq d b g ^hp_gl bklhjbq_kdh]h n
F < Ehfhghkh\Z qe_g P_glZ^hmqx kdhcbij_^dhcgdhfbkkbb, ih b
dmitcher@mail.ru