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Kfhe_gkdbchkmZkl\ggucmgb\jkl_l^a

DZ_jZ_f_pdhhyaudZ

QI\jZ^a
Ijhj_dlhjihmggh -
f_lhbqkdhcjZ_
Mklbf_gdhX:
© k_glyfy 2020]

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F :00 , ,1

F :
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Dmjk± 2,3
K_f_klj± 3,4,5
k_haZguo_bgbp± Zh± 396
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 ijZbdbhkmZkl_gghcblh\hcZ_klZbb

<p>-5</p> <p>h\hdb</p> <p>h\hdb \ g</p> <p>h</p>	<p>6</p> <p>h\hdb</p> <p>6</p> <p>h\hdb</p> <p>h\hdb</p> <p>h</p> <p>6</p> <p>h\hdb</p>
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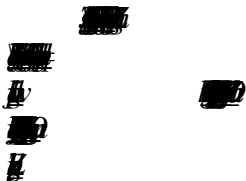
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 =jZbbJZbaf_ebl_jZnj_ =jfZbbG_f_pdZ y ebl_jZnjZm[\ -\
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 • bamZfuoebl_jZnjguogZ_gbc
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 • h
 • -Zblqkdh\ ihh_gby omh`kl_ggh\l_dklZ
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II 3						
1.		26	6		6	14
2.		23	6		6	11
3.	h	19	4		4	11
4.	b	19	4		4	11
5.		19	4		4	11
6.		19	4		4	11
7.	-\	19	4		4	11
	6	144	32		32	80
III 0						
1.	B	45	20		12	13
2.		36	14		10	12
3.		36	14		10	12
4.		27				27
	6	144	48		32	64
IV 5						
1.	-b	25	10		4	11
2.	B	31	12		8	11
3.		25	10		4	11
4.		27				27
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	6	396	112		80	204

1-3:



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hkdmjz\zabaf\jdhgbdh\zabaf\zkm_\jby\okfZfguoex^c^gZ\gkdhf
yaud_ ± hfz_p kbj u wihob mfz\zabaf\ohjz\mjz\K ;jZ
bz\zabaf\ijhba\^gb_gz_f_pdhf yaud_ Inhjfzby b F Exl_j ?h i_j_h^
;b\bbbfmohgu_i_kgb

± k\zjbdh -

4-6:

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hf_klZg_ikhlygklh k\ly r\hklvp_gghkl_c Kyavk iemlh\kdbf jhfz\h
ghgu_kx \lgu_ebgb\udjh\z

7-8:

\ ± \d Ijkh\s_gby zmf dZ hkghZijhk\l\l_ekdh\ fbjh\haaj_gby
kh\gghklb Ijkh\s_gby \jfbzbb g_bf_xs_c iheblbzqkdh\ _bgkl\h\mklb_
gzbh gzh\ ebl_jznjgh\ yaudZ gzbhgzh\ l_ZZ gzbhgzh\h
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kha\bx gzbhgzh\l_ZZ_jznjzpmakdh\ deZkbpbfZ XVIII \dZ\h\z_p
u\zgucBDhr_hf

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jmkkhbkldbob^c

9-10:

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± mo hljbpy F_nbkln_ev\jzkeu geh\dZ
klj_fysb_ky d bklbg_ :fb_glgkiv hfz F_nbkln_ey jmr_gb_ dz
g_hphbfucdh fihg_glm\j^gbyghhghgu_kx`lgu_ebgbbhfzuyaud

11-12:

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WL: hfz dz gh\eebkl zj jhfzbfqkdhc kdZdb @hehlhc hjrhd^DjhrdZ
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13-14:

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15-16:

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- 1. ~~XXXXXXXXXX~~ : BklhjbyaZm[ghcebl_jZnjuhl:glbghklb^k_j_ûgu;,\dZ
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- 2. ~~XXXXXXXXXX~~ : BklhjbyaZm[ghcebl_jZnjuhl:glbghklb^k_j_ûgu;,\dZ
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- 3. ~~XXXXXXXXXX~~ : Bklhjby g_f_pdhc ebl_jZnju : Rxd_i_j_hûd? : G_djZkhZ^
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-©kgmgbl_emgZ^a -kj_g_\dhucg_f_pdbc_ljhbqkdbcwihk
-Ihwaby ljmZjh\ljm_jh\fbgg_abgljh\Zlh\Lhjgklh Zl_jZhng ^j
Nh]eÿc^
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. 6

■ ebl_jVnjZj_gbo\ dhwihobkajh^gby
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-hlnjbKljZnjkdcb_hjhfgjcklZbBaheZ
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6

■ kijhkuéyhkm^gby
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06

■ XVII \dZ
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16

■ Z XVII \dZ
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-Lhjgklh:gZnbnmkZbkbhg_luhû

26

■ XVII \dZ
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46



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56



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gZkdZ

-, 6



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-Zk1B=1_

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-6



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-06



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-16



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-26



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keZ_klhjhgugZnjZbafZ

6

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XjZ ^2 433 k ^2 ukr_hj_Zhb_ ^2 ISBN 978-5-534-07123-8. ^2 L_dkl
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3. ~~██████~~
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4. ~~██████~~
~~██████~~ F I :e_dk__b j█^_Zpb_c
j_Zpb_c E G Ithemfjyjbghhc H : K\lezhhc : : █_█ > :elzghc
: I @dhZ X Fbjhexhhc 2 Fhk dZBa█eklh Xj█ 2 395 k 2
ukr_hjzhz_ 2 ISBN 978-5-534-02682-5. 2 L_dklwe_dljhgucW ;KXj█
k█@ 2 URL: <https://urait.ru/bcode/451725>.

6

-Ihagzhfblkykl_ljzh_cJ Z_jDhephgb[emgZ
-Ihagzhfblkykebj_llhZ_jpbnzhi_jhcCj bklzBaheZ

6

-Ihagzhfblky k ihehlgh g_f_pdbo omhgbdh\ ;9,, \dZ\ Kfhe_gkdhc
hkmZ\gghcZ_j_
-AgZdhfklh k ihehlgh II m_lgk Zake_Rlh_ hcgua^b G Imkk_gZykh
Nehju^a

6

-Ihkfhlj_liwkuE_kkbgpoggzhg;Zgo_ewfbyezhllb^a
-Ihkfhlj_lubefichllZ <cfZ^a
-Ihkfhlj_liwkuRbee_jm_cgbdbbOhZkhbexh^v

6

~~██████~~

6

-AgZ -klbohllj_gby=cg_
-Ihkfhlj_lkdzdbznDhehgh_k_jp_CZ_gd bcFmd^a
-Ihkfhlj_lubefic_gihyvk_RyZ
-IhdZ_gZbf_j_khj_f_gghe ebl_jnju dzjhZlbqkdh_h_fbjb_klzhblky
hkghgufijbgpbihfkljh_gbyomh_kl\gghc^cklbl_eghklb

6

-Ihkfhlj_lubefihjhfgmLNhglZ_wnnb;jbkl^a

6

-Ihkfhlj_liwkuCdhDlhgmrbcdhehdheZ ilfZgZ

6

1. █ : Bklhjbyazm_lghcebl_jnjuhlgblghklb^k_j_δgu;;\dZ
ILhfmqgbdēymah\ ; : be_gkhg 2 Fhk dZBa█eklhXj█ 2
260 k 2 ukr_hjzhz_ 2 ISBN 978-5-9916-7410-2. 2 L_dkl we_dljhguc
W;KXj█k█@ 2 URL: <https://urait.ru/bcode/451862>.

2. █ : Bklhjbyazm_lghcebl_jnjuhlgblghklb^k_j_δgu;;\dZ
ILhfmq[gbdēymah\ ; : be_gkhg 2 Fhk dZBa█eklhXj█ 2
417 k 2 ukr_hjzhz_ 2 ISBN 978-5-9916-7412-6. 2 L_dkl we_dljhguc
W;KXj█k█@ 2 URL: <https://urait.ru/bcode/451863>.

6 nbefu ba jZ^eZkklhyl_egZ_jZ^i dZfm k_f_kljm
hklmigu d ijkhfljm \He_ bghkljZghc ebl_jnju b G_f_pdh -njZpmakdhf
qlZghfaZ ;MDKfhe_gkdZheZgyZmgb\jkZyZgZyZpēbhl_dZf_gb:L
Ljkhdhj

II IV

E_d1€ & h g g h_ 1aU: g y l b _
 llh)dkllcFzgZKFzZbN_colzljzj_olWfJfzZDermc (
 jhfz^jhi_ckdh)agzgbby ± hklb`gb_g_f_pdhc ebl_j Znju _jhc ihehbg_OO
 \dZ hfz -ojhgbdZ L FzgZ @^gjhdb^ Bklhjbdh -zZblbqkdbc ihoh^
 bahjZgb_ qluj_o ihdhe_gbc kjljklZBgdhbmzbaZby i_jkhgZc b bo
 khpbZyZlbibaZbyBgl_ee_dlmZyu_jhfZuLFzgZDer_gZjhZch IIZ
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 kms_klhZby qeh\dZQeh\d dZ khpbZyuc lbi b dZ ij_klZ_evjhZ
 geh\qkdh) Gh\eeu L FzgZa omhgbd_h_h f_kl_ \kh_f_gghf hf_kl\
 Lhjqlh =FzgZKhpbzgh -djblbqkdb_ jhfZu @ljZdbk_eguo [j_h^
 Qhn_kkhj MgjZ @ghihZguc^ FZl_jklh kZjbdZ bi_jhebaZby
 oZl_jbklbd ij_gZ_j_ggh_ kf_s_gb_ ijhijpbc hkkhaZb_ ikbohehpb
 @ghihZghhZ^kihlhghebp_LhjqlhEN_colzljZhnbdbZby
 bklhjbaqkdh) jhfZBklhjbaqkdbc jhfZ dZieZ^ ey ijhykg_gby khpbZyuo b
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 ljhy_-hbghdb dZhkghgZijhe_fZh jhfZ\@ahjZgZljphbgY^@mjhklv
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 LFzgZghklhjhhey=gjboZ IVFzgZki_oE

2. **И** **И** - gq;,\dZ
 mqfbdë\mah\ < F LhefZb\j_ Zpb_c< F LhefZ 2 2-_ba^
 i_j_jZb ni 2 FhkdZBaZeklXjZ 2 362 k 2 ukr__
 hfZhb_ 2 ISBN 978-5-534-08191-6. 2 L_dkl we_dljhguc W;K XjZ kZ@
 2 URL: <https://urait.ru/bcode/450501>.
3. **И** Bklhjby g_f_pdhc ebl_jZnju : Rxd_i_j_hqd? : G_djZzh^
 j_Zpb_c B B e b\gdh 2 FhkdZBaZeklXjZ 2 303 k 2
 :glhehby fukeb 2 ISBN 978-5-534-11703-5. 2 L_dkl we_dljhguc W;K XjZ
 kZ@ 2 URL:<https://urait.ru/bcode/457177>.

-6



-Bgl_ee_dlmZgh -nbehkhnkdb_jhfZu L FzgZchlZ<cfZ_ Qdlhj Nzkmlk^
 @er_gZhjZ
 -K_f_cgZojhgbdZFzgZn^gjhdb^

. 6



-=Fzg ± khaZevkhpZgh -djblbqkdbo jhfZ\hljZsbo iheblbqkdh_b
 fhogh_jZpb_ ≡jfZbb i_jhc iehbgu OO \dZ Qhn_kkhj MgjZ
 @ghihZguc^
 -Omh_kl\ggu_ kj_klZ = FzgZ -kZbjbdZ bi_jhebaZby oZl_jbklbd
 hkkhaZsboikboheh\jghihZghhghfebp_ ±jZ^kihl

6



-FhnbdbZbybklhjbqkdhjhfhZ_f_pdhcebl_jZnj_ -ohhE N_colZlj ----
 -BklhjbqkdbcjhfhZijhrehfZiehsZy ihgbfZby khpbZguob iheblbqkdbo
 ijhe_f khj_f_gghklb @mjhklvqZZcy^ ijhlbhihklZ_gb_ kklZ
 hexbgklZmfml_jhy -hbghdb

06



-:glbnZbklkdbc jhfZnhjf_bklhjbqkdhjhfhZghklvdhjhey ≡gjboZ^=
 FzgZchlZ<cfZ_ ^L FzgZMki_o N_colZljZehgZ ijhe_fZjZ
 jhfZbafZhlbZklZgZbeby

16



-:glbh_ggu_jhfZuWFJfZGZzhfnjhgl_lai_j_f_gCjblhZsZ
 -:glbnZbklkdb_jhfZu: A_ljk @_fnc dj_kl^EN_colZljZMki_ob WF
 JfZCjbmfnZgZ jZ
 Azylb_
 Ebl_jZnjZfZbbi_jhc iehbguOO\dZ
 kihkuëyhkm^gby
 -Wibqkdbc l_Z; ;j_olZj_ol ± j_nhjfZj l_ZZ^h ijbgpbibZgh_hlebb_l hl
 ikbohehZqkdhjhZklhl_e_kdhhl_ZZkuCj_ojhrhZhi_jZmrdZ -----
 -DmjZ_^lb@Zbe_yhucqeh\dba KumZbOZkdbc_f_ehhc
 djm^Wnn_dl @m^gby^jZmr_gb_ beexabb_g_ij_jughh ^cklby ohju ahgZ
 k_lhü_bhamZyu_ijb_fu



-ljh[e_fVdZihwlbddZjqklZjo_jlZjhldb_jkdkZuivkZnebp_i_j^
^jx^a



kijhkuEyhkm^gby
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^kylh\h\@miih\cih jlj_lkZcWkl_lbdZeh\ghh=ey



-Bklhjbybjhl_kdjhfZ_jk@lyghcZ^
-Ighr_gb_=eybjkZ@_gdhfmqeh_dm^
-, 6



-Qeh_d\mkehbyo kms_klhZby mo b^heh\qkdbo kbkl_f\jZbb_jhfZM
hgkhgZ\h h dh[^b D ken Qilhehlh_g_h^a Ighr_gb_M hgkhgZ
@_gdhfmqeh_dm^
-- 6



-Ihklfh^jgbaf Ihklfh^jgbklkdb_fhlbul\hjql\IAxkdbgZxf_j^a
-. 6



-Ijhe_fZ_hhe_gby nZklkdhh ijhrehh \hjql\ : A_ljk @_fnc dj_kl^a
NNxfZzh\eeu@niheZ @_ckdbcZfhpè^ Dken@bf_jhggh
^kl@hey@bdexqgby<jg_jDhehZ
- 6



-Ijhe_fZ_hhe_gby nZklkdhh ijhrehh \hjql\ : A_ljk @_fnc dj_kl^a
NNxfZzh\eeu@niheZ @_ckd bcZfhpè^Dken@bf_jhggh
^kl@hey@bdexqgby<jg_jDhehZ\hhe`gb_
-06

Ebl_jZnjZ

-Ijhe_fZ\Zhe_gbyghncebgkklbjhfZ_DZl@lhucaZ^
-16



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-26



-Ijhe_fZ\fhhlghr_gby g_fp_\kh khbfb hklhgufb khk_ÿfb \
;hjhkdhhjhfhZu@egbpE_bgEblhkdb_deZju^a lhjqkl\ B

1. ~~...~~ F A~~...~~ ebl_j~~...~~dhgpZ; - g~~...~~; _dZmqgbd èy
~~...~~ < F Lhef~~...~~ 2 4- ba^i_j_j~~...~~ hi 2 F hkdZBaZeklh
Xj~~...~~ 2 811 k 2 ;~~...~~:dZfbqkdbc dmjk 2 ISBN 978-5-9916-3136-5.
2 L_dklwe_dljhggucW;KXj~~...~~@ 2 URL: <https://urait.ru/bcode/444151>.

6

-Ihkfhlj_l~~...~~ChllZcfZ_ey^a
-Ijhkfhlj ivk ;j_olZ~~...~~oJhr_Y hi_j~~...~~rdZdmjZb __ ^lb^aq~~...~~uc
geh\dbaKun~~...~~Z~~...~~agZbe_y~~...~~DZ~~...~~ kdbcf_eh~~...~~cdjmf

6

-Ihkfhlj_l~~...~~befu~~...~~f[aohaybg~~...~~dl_jyggZqkl~~...~~DZ~~...~~gu;exf^ahjh~~...~~fZ~~...~~
= ;_ey
-Ihkfhlj_l~~...~~befu~~...~~@klyghc~~...~~ZGh[e_kdZij_fbyRehp_jZ
-Ihkfhlj_l~~...~~befu~~...~~@xf_j^a ihjh~~...~~fZm I AxkdbgZ

6

-Ihkfhlj_l~~...~~befu~~...~~ihjh~~...~~fZm:A_ljk~~...~~Q_fhcdj_kl^a
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-Ihkfhlj_l~~...~~befu~~...~~@;bgdhiihjh~~...~~fZmWRljblfZ_jZ
-Ihkfhlj_l~~...~~befu~~...~~ihjh~~...~~qklmShey~~...~~Qbdexqgby<jg_j~~...~~Dhe~~...~~W~~...~~dlh~~...~~ucaZ^a
ihjhba_^gbx~~...~~DZ~~...~~Z

1. ~~...~~ F A~~...~~ ebl_j~~...~~dhgpZ; - g~~...~~; _dZmqgbd èy
~~...~~ < F Lhef~~...~~ 2 4- ba^i_j_j~~...~~ hi 2 F hkdZBaZeklh
Xj~~...~~ 2 811 k 2 ;~~...~~:dZfbqkdbc dmjk 2 ISBN 978-5-9916-3136-5.
2 L_dklwe_dljhggucW;KXj~~...~~@ 2 URL: <https://urait.ru/bcode/444151>.

6 nbefu ba jZ~~...~~eZ~~...~~klhyl_egZ_j~~...~~Z~~...~~d~~...~~fm k_f_kl~~...~~jm
hklmigu d ijhkfhljm \He_ bghkljZghe ebl_j~~...~~nju b G_f_pdh -njZ~~...~~pmakdhf
qlZghfaZ ;MDKfhe_gkdZ~~...~~he~~...~~Z~~...~~gymgb\jkZ~~...~~gZ~~...~~gZ~~...~~pebhl_d~~...~~W~~...~~gb:L
L~~...~~kdh h'

III V

1-5:

kh_lgghklb j~~...~~blby ~~...~~kljbckdhc ebl_j~~...~~nju dhgpZb g~~...~~Z\j~~...~~miiZ
ChehZ <gZ - \j~~...~~zbl_evghuo l_g^gpbc j~~...~~blby ~~...~~kl j~~...~~bckdhc ebl_j~~...~~nju
Ebl_j~~...~~njgh -wkl_lbqkdZ ^yl_eghklv=:Z: Rgbpe_jZ :ev_gLjljZE
:gfbZ~~...~~Z

6-11:

~~...~~
~~...~~
~~...~~
~~...~~
Lhj~~...~~qklh N DZdb Gh_eeZ~~...~~q_jZ_gb_ajh fz ~~...~~Qhp_kk^adZ \jZgb_
ijhl_klZ~~...~~h~~...~~l~~...~~bjhdjZ~~...~~qkdhh_l_oghabjh~~...~~Zgh~~...~~h~~...~~fbjZ~~...~~Zgh~~...~~h~~...~~geh\dm Gh~~...~~u_
kj_R~~...~~Zah~~...~~Zgby~~...~~Z~~...~~h~~...~~gh~~...~~h~~...~~fbjZ~~...~~Z~~...~~bklbqkdbfbkj_R~~...~~Z~~...~~dZ~~...~~fbjZ~~...~~u^ggh~~...~~h~~...~~b
ghj~~...~~fZ~~...~~gh~~...~~h

ihdZ jZuZ m jnfz bklbqdbf dh^dkhf mgZe hZguf hl ijhreuo wiho b
^Zpbk_o_h mklZhe_gbc gZlhyf_fhfzu @r_gu_kfmlu hklblZgbdZ
L_je_kkZeh_dj_akhckl^

Fbed_gZbaijhe_fZdblhjqklZljZg_cebZdbh_hklZhe_gby\
djmg_cr_hihwZihobhehkkbbnhjfbjZgobwlbqkdhcihabpbbed_khjgbd
QnkehShg_ludh_xdZk^l_eklhj_l_gbyihwhf @rbfbjZ

-. -16:



F Njbr ± ijhaZd Pbde jhfZn \h ihkdZ b^glbqhkklb qeh_dZ^fyo
_jhi_ckdhc pbbebazbb @Zhl_f_gy Z_gZghf^@Bee_j^© homo Faber^a
Iyku -ijblh @^jfZbihbZeb @hjjZ

6

1. F LhefZb_j^f_Zpb_c < F LhefZ 2 3-_ba^i_j_jB
hi 2 FhkdZ BaZ_eklh XjZ 2 430 k 2 ukr_hjZhg_ 2
ISBN 978-5-534-08391-0. 2 L_dkl we_dljhguc W;K Xj Z kZ@ 2
URL: <https://urait.ru/bcode/450052>.
2. - gZn;; \dZ
mqgbd ey\mah\ < F LhefZb_j^f_Zpb_c < F LhefZ 2 2-_ba^
i_j_jZb hi 2 FhkdZ BaZ_eklh XjZ 2 362 k 2 ukr_
hjZhg_ 2 ISBN 978-5-534-08191-6. 2 L_dkl we_dljhguc W;K XjZ kZ@
2 URL: <https://urait.ru/bcode/450501>.
3. F Ajm[gZ ebl_jZmjZhgZ;
 \ < F LhefZ 2 4-_ba^i_j_jZb hi 2 FhkdZ BaZ_eklh
XjZ 2 811 k 2 ;Zy_dZfbqkdbc dmjk 2 ISBN 978-5-9916-3136-5.
2 L_dklwe_dljhgucW;KXjZkZ@ 2 URL: <https://urait.ru/bcode/444151>.

-6



-o\

-Lhjgk lhmfzklZy dZkh_bg_gb_ hokhklZyxso ± dmelmjgh -_jhi_ckdhcb
fbjhkc ljZpbc b ghZjklh kbhehaf g_hjhZbaf Iyku @ni_p b kf_jlv
Bfyj_dVe_dljZgy^a
-hmfzklZdZkhaZ_ekhj_f_gghe Zjbc kdhc dhf_bB @ \ jZ_gb_Dj bklbgu
hfhc @jmgucyZ_jhghZb^y_hdhf_bcfZdZmlklbaheb jhZghklb
dhfghklb

. 6



-o\

-hmfzklZv ± ebjbd Klbob ShgZ i_kgy^a @Zn he mhc fB^aKebygb_
g_rg_h b gmlj_gg_h fbjZkbfhebqkdb_ ijbZu ij_jZsb_k_jp_ ihwZ
ijhkljZkl_ggh -j_f_gghchjZ
Ijh_e_fZgbdZghklbZjbc kdhc ebl_jZnju



-Dzd@gb lhjqklhbog_jzughklGh\eeQ_jz_gb_jhfzQhp_kk^
kh[gghklv omh\kl\gghh ibkfZmhbogu_jhl_kdb gZkZgu_ ijhkluf
kihdhcgufhf_dlbgh -j_bklbjmxsbfkehlfj_zbafbjjzhhgZghh

06

E **:D**

-JFmabev@r_gu_kfmlu hkiblZgbdZ_je_kkZjh_e_fZnljZu_j_Zghklx
ijhghh hēbdZB^y ih\klb ± ihagZb_xguf L_je_kkhf j@hca mjhēbhc
^cklbl_eghklbfbjghmbZs_ckyki_jhc@rg_cj_Z ghklxImklhlZ_gbo
p_gghkl_cImklhihjghklkeh@Zb@rZ

16

D

-@gblhjqlhFbed_ ± djmig_cr_hihwldO\dZlj_Zhkkb_cklZ_c
hghc ba fhohguo hlhag ihwlZ Khjgbd Qkeh^dZ ihwlbqkdh_hljZgb_wlhc
klj_b

26

D

-Qkeh^dZ khhgZ hl ljZpbhgguo haaj_gbc bgbbmZyZ_j_ebby kZhh
ihwlZOmh\kl\ggu_hkh[gghklb_f_ehdZjZghh[jZgu_jblfu ijhbahegh_
hfZ_gb_kēbghcp_eklgklxihwlbqkdhckljhnu

3:

E

-LhjqlhijhaZdENjbrZbdejhfZhhihbkd_b^glbgghklbhfZQbee_j^a
bahZgb_g_mZhcihul dbbaf_gblvjh_fkxb^glbgghklhfZQRPR)DEH^
lydbcimlyjhyhlbgldZog_pbbebafZbhgghhf_ozbafZhf_l_gbybfkh_c
bgbbmZghklb

-L_jN_xjj_gfZzbygb_;;j_olZjZdhf_bydZz_j_hivk

46

E **B**

-Qbabdb^ijh_e_fZnl_lkl\gghklb dZhh aZkm^ fbjZabl klzic Z_u^
djblbdZz_klZnebhqfhjZbh_e_klZlj_ē_gby
Wkl_lbgkdcb ijZk^a dZ ijbgpbi ihkljh_gby ^cklby \ljZdhf_by
xjj_gfZz

o N

6

1. **E**

ln < F LhefZb_j@_Zpb_c< F LhefZz 2 3-_ba^_j_jB
ni 2 FhkdZ BaZ_eklh X jZl 2 430 k 2 ukr_hjZhgZ_ 2
ISBN 978-5-534-08391-0. 2 L_dkl we_dljhgguc W;K XjZl kZl@ 2
URL:https://urait.ru/bcode/450052.

2. **E**

mqfbdēy\mah\ < F LhefZb_j@_Zpb_c< F LhefZz 2 2-_ba^
i_j_jZb ni 2 FhkdZ BaZ_eklh XjZl 2 362 k 2 ukr_
hfZhgZ_ 2 ISBN 978-5-534-08191-6. 2 L_dkl we_dljhgguc W;K XjZl kZl@
2 URL: https://urait.ru/bcode/450501.

3. **E**

Bklhjby_g_f_pdhc ebl_jZnju : Rxd_i_j_hqd? : G_djZhh^
j_Zpb_c B B eb\gdh 2 FhkdZ BaZ_eklh XjZl 020. 2 303 k 2

6

-Ihkfhlj_ldhf_bxhmfzklzy@jz_gb_Djbklbgufhfc^a
-Ihagzhfblkykebj_llhmfzklzyDZ_jjhafmaudKljzkkZ

6

-Ihkfhlj_lubef @r_gu_kfmluhkiblZgbdZ_je_kkZ
-Ihkfhlj_lubefuOZdD_jz_gb_Thp_kk^a
-Ihkfhlj_lubefDed_bllkkby^a

6

-Ihkfhlj_lubef© homo FaberfhjhfgmFNjbrZ
-Ihkfhlj_lv nbefuihivkZNXjj_gfZDbabdb@bkljzcc^a

1. F Azm[gy ebl_jm[jzhgpZ; - gZ; \dZmqgbd ey
LXjZ \ < F LhefZ 2 4- ba^i_j_jZb ni 2 FhkDZBaZe klh
XjZ 2 811 k 2 ;Zy:dZfbqkdbc dmjk 2 ISBN 978-5-9916-3136-5.
2 L_dklwe_dljggucW;KXjZkZ@ 2 URL: <https://urait.ru/bcode/444151>.

6 nbefu ba jZ^eZ @Zklhyl_egZ jZd dZfm k_f_kljm
hklmigu d ijhkfhljm \ He_ bghkljzghc ebl_jZnju b G_f_pdh -njZpmakdhf
blZghfaZ ;MDKfhe_gkdZheZgyZmgb\jkZyZgZgyZebhl_dZf_gb:L
LjZkdhj'

2

G_ij_juguc fhgblhjbglazZhc klm^glh\l_qgb_dZm mqghh hZ
hkms_kley_lky_nhjf_ mklguo hijhkh\dhgljhey \iiege_gby aZbc ey Zbhljghc b
kZklhyl_eghc jZu ih kh^jZbx Dkpbiebg dhgljhey agZby jZkfbZfu
ijhba^gbc mZnk_sZfhklb b Zfbqkdhc Zbghklb klm^glh\kghguc b^
dhgljhey ±l_klih l_fZkhlh\lklmxsfjZ^eZ_fZbqkdh\ieZghc jZc
ij hjZu

(II (0

Z ±9,\
p,,\
;\\
DZb_Zjuhlghkylkydnhedehjm"
KdZdb
gh\eeu
fbgg_aZ
QlZh_QqkdZhwaby"
Z aZebgZby
hZb
i_kgb
QlZh_Qgg_aZ
Z_gZ_kgy
LjhbqkdZ_kgy
i_kgyhexp

ljhbqkdzi_kgy ZBZ
kLjZ [kgmExb]
i_j_h?Z]eby lhi:fb k

Ihqm\ ± ;,lj_hfZgWlhuehkyazh
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kojbklbzbaZ_c
klhjhe_c

P_gljZ]lghklb\; ± ;,ueb
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ZxhZkdbc
Ghld_jG_f_pdbc
hlnjbKljZmjkdcb ± XIII
DZb_hjZpuebyebgZ\lb_k\lkdhcdmelmjuhnygklZifZob\,,"

`
Zeh -kZkhgkdb_
blZygkdb_
hjZpmakdb_
QhfhagZ _lkehZmjlmZguc"
Zljkdcb
h_hZgh -ijbZhguc

dj_klygkdbc
DZb_Zjug_ohdebZmjlmZgmxebjbdm;,, ± ;,,,"
Z_kgbbklbobhexbdij_djZghcZ
f_kgbhdj_klhuihohZ

kdZdb
Hj^ebl_khhl\lkLb_ZjZ bijhba^gby

ZfZnhg:mw fbgg_aZ]
Zv_jnhg^jNh]eyc^ QpbnZv
kenjZnhgWr_gZ ;_guc=gjbo

DZhcjhfhexbgZkZ,,hlnjbKljZmjkdcb"
ZkhgbZbeZ
Wj_dbB\cg^a
QjbklZb BaheZ

dZhcg_f_pdbcibkZ_ey;\ dZb_kZdgbmhZv_j_nhg^jNh]eyc^"
Exb]Lbd
Exb]MeZ^
De_f_gk;j_g]h
DZgZuZkywlZgbZ
GZhb_l_kZ_uZs__kywibqkdh_ijhba^gb_;;,,
QkgmExb] ^a
Qk ghObeZ]Z^a
QkgmGb]emgZ^a
DZhcg_f_pdbcdhfiablhj;,\ dZhaZhi_juihflbZv]h]hwiKZ

1.1. Wblkh] eKghfgc_rh`th`yik_gZ`h`hgZ`k`blZ
lh`thqlZk_g_ijkbfZgbqhk\joiheh`gghh ± gbfeZbieZgb
klbohlhj_gbc_gbh`th`l`ij_eZ`fnc`e imklvZ`k`kuf`baysgu`f`
ihdeghf` .

UjlN_f_eRj_eeZ
egjboN_f_eBhgX_f_ev
Clhedh`mlb ± ebhgbqhg_ag`ebhag`k`lhyf`Zgbqhg_agZ`
ih`-fh_fmhgZ`adhgeZ`g`ghcdheu`k`_ygbdh`_`gbeky`ugbgZ`
dzhc`fmhc`gsbg`^a`

ZgjboN_f_eUjlN_f_ev
Bho_gRj_eeZ
Ckdhg`guo`lhf`ljbqkdbo`nb`mjZ`dhlhju`ljb`r`Z`h`q`j`b`g`Z`_e`ghf`
kmdg`_ue`Z`hy`kl`j`h`y`ih`waby`gbdh`Z`_ij`b`g`b`f`Z`g`b`l`by`fnc`e`Z`hd`h`gh`l`_j`ib`
bklya`Z`by`_`b`fhbo`h`p`^a`g`Z`ij`b`j`h`guo`em`Z`d`Z`_`b`j`Z`_`l`ck`e`g`Z`
j`mn`_e`j`k`_b`g`Z`h`^`k`l`k`_j`_f`_k`lyo`E`h`g`h`Z`a`Z`j`_f`g`h`c`j`_r`_l`d`h`c`^a`

ZgjboN_f_eUjlN_f_ev
Bho_gRj_eeZ
C`_ij`b`f`b`j`b`e`k`y`b`g`_`ij`b`f`j`x`k`k`l`_`f`b`k`b`e`Z` dhlhju`_`m`m`b`_`b`g`h`g`u`_`k`f`_`j`l`b`
N`_j`b`b`k`f`_`j`l`b`W`b`l`k`l`_`Z`b`k`k`h`o`j`Z`b`l`K`y`l`h`c`K`_`_`j`b`g`g`_`l`y`Z`_`d`h`g`_`ij`b`f`b`j`b`e`k`y`
g`b`k`k`_`Z`b`f`k`h`c`g`b`k`_`m`o`h`f`i`j`b`f`j`_`g`b`y`d`h`l`h`j`u`c`_`_`k`h`b`j`Z`_`_`k`v`j`h`h`a`e`Z`b`l`_`c`
i`j`Z`_`b`g`h`c`i`j`h`i`h`_`b`^a`

ZgjboN_f_ev
Ulj` IN_f_ev
Rj_eeZ
Wb`^e`Z`h`ebph`mb`^e`Z`Z`hg`^l`oe`_`i`h`l`h`f`h`g`_`ur`_`e`b`a`d`e`k`k`Z`h`h`d`h`
o`h`l`j`Z`b`^e`l`Z`h`_`eb`p`h`g`b`f`Z`h`g`_`_`l`k`i`h`d`h`y`l`a`h`j`Z`g`u`_`_`k`l`_`Z`h`_`f`g`_`^e`h`h`
Z`b`o`_`k`l`_`f`g`_`_`ij`b`r`e`h`k`v`o`j`Z`b`l`_`h`e`_`_`k`l`j`Z`g`u`_`_`l`Z`g`u` fg`_`ij`b`r`e`h`k`v`_`j`_`b`l`v`
k`f`_`j`l`_`e`g`u`c`m`k`f`_`j`l`_`p`h`j`h`k`Z`b`g`Z`b`g`u`d`Z`f`_`r`d`b`k`d`j`h`r`d`h`c`^a`
Z`l`F`Z`Z`g`Z`

E`_h`g`h`j`B`h`Z`g`X`_`f`_`e`v`
C`Z`b`f`f`h`e`h`d`Z`d`Z`l`u`y`_`e`Z`i`j`h`b`j`k`_`f`h`c`g`i`h`j`y`h`h`e`g`h`o`g`u`d`Z`
fg`_`g`Z`_`_`k`d`h`e`d`h`_`h` cg`_`lu`_`i`j`h`b`j`Z`_`G`Z`_`h`i`e`Z`b`Z`i`h`h`f`b`o`_`^`l`_`c`_`Z`g`_`
i`j`h`b`j`Z`g`u`_`h`c`g`u`^a`
B`h`Z`g`X`_`f`_`e`v`g`j`b`o`N`_`f`_`e`v`
R`j`_`e`e`U`j`l`N`_`f`_`e`v`

@x`g`g`Z`h`c`i`Z`y`l`g`b`d`E`_`h`g`h`j`k`d`Z`b`f`h`y`l`Z`i`j`h`k`b`e`o`h`q`r`y`_`Z`_`l`
i`b`k`f`_`g`g`h`_`j`Z`_`r`_`g`b`_`b`a`Z`j`x` ih`f`b`k`m`g`h`l`Z`b`m`k`Z`
U`j`l`N`_`f`_`e`v`g`j`b`o`N`_`f`_`e`v`
B`h`a`_`n`_`f`_`e`v`G`_`l`l`e`b`g`l`j`
C`i`j`y`l`k`m`f`h`d`_`k`f`_`j`l`y`l`h`Z`j`g`m`l`k`y`d`b`a`g`b`G`b`d`l`h`Z`b`g`_`h`Z`k`y`_`h`
h`g`h`i`j`b`d`h`k`g`h`_`g`b`_`d`o`e`h`g`h`f`m`f`_`l`Z`e`m`b`a`e`_`b`l`f`_`g`y`h`g`b`k`e`b`r`d`h`f`_`m`d`Z`y`h`i` h`g`b`f`Z`b`
f`h`b`k`e`h`Z`h`j`m`v`f`g`_`h`k`_`g`_`g`m`g`h`j`m`v`h`k`l`Z`g`h`i`b`k`l`h`e`_`l`Z`Z`_`f`g`Z`_`f`k`
Z`j`Z`D`j`h`g`_`j`F`Z`Z`g`Z`

B`h`Z`g`Z`l`
H`h`f`i`_`j`k`h`g`Z`b`^`l`j`_`g`h`f`n`j`Z`_`g`l`_`_`
O`h`_`a`g`Z`_`d`h`Z`j`h`l`_`h`b`g`g`Z`Z`h`g`Z`h`b`e`k`y`_`d`Z`_`l`
i`j`h`k`l`j`Z`k`l`_`b`k`u`i`_`j`_`k`l`Z`b`i`h`d`Z`u`Z`_`f`y`h`g`i`h`j`m`Z`k`y`_`d`m`Z` u`_`_`l`_`a`h`a`f`m`r`g`h`f`
_`l`h`h`g`g`v`m`h`d`h`
Z`k`y`i`h`g`m`h`d`_`Z`Z`c`k`l`b`l`_`e`g`h`k`g`_`i`j`h`g`b`d`Z`k`x`Z`g`k`l`Z`k`g`y`m`b`f`m`h`
a`k`l`_`g`d`Z`Z`b`m`f`Z`e`b`a`k`l`_`d`e`Z`b`l`j`b`g`u`^a`

B`h`o`_`g`
l`_`U`j`l`N`_`f`_`e`v`
m`h`

ayel_faZhgbdhf^

lljN_f_eGj

boN_f_ev

Rj_eeG_llebgLj

Qljhcdbg_ij_klZyxlEyg_hbgl_j_kflh`llZ_hgkebrdhfZh_abe

lmZkl\ ihgbfZrh\ fy hkdj_kguo ijhjhmedkjhbl_eyfbajhkeu_exb

hlijZyxlkyl_f_klZjhrehbo^lklh

lhedh_kebbfohqlkyihjmkblb^

Bha_nN_f_ev

lljN_f_ev

egjboN_f_ev

B hgb ij_jZeb f_gy \ojbklbgdm HZieZbeZ b kqlebZ hbeZ

ohjhuhbkdzZghcghd_bjZyjuZj_a\j_hqmbhgex[

beZ

jhbl_e_c^a

ZbZgZl

WblBhZgZ

@ gyahmlOhqjmZynZbebyQeg^gmjhfj_j_MjZ

BhZgZ_f_ev

egjboN_f_ev

Bho_g

Qhohy fbfhEbggchqj_b m dZku hgZjhheZzeZl\

_keau

g_fpu ZebZ_b heezpu kdhgnm`ggh hhhjZbkv hgb k g_hmf_gb_f

kijZbZk_fyZmxfmql_egmxlZgmojZblkde_i^a

ZlFZgZ

hjnDjhg_jBhZgZ

@ ba l_o fhehdh(dhlhju_ ijbduZeb ueZm f_j

l_ph\ahelhu_

dhjhgdbbhlj_aZehkum^l_c^a

RkihbgFG_llebgLj

D_kl_jkDZ^jk

Qiehbgu^kylhfhhgZb_hfhghiehaZl_e_Qbgp=egjbo^a

khbggZb^gZb

± dZ_Eghagfiek_Z

b^lQZlpZq

kugZlkihbgRj_eemk^gZb hg hneye Zklj_Zky k hqjx b h[Z

f_kl_kg_cMeZ

ZgjboN_f_eBha_nN_f_ev

lljN_f_eG_llebgLj

klZijhims_ggh_keh

@bdhZ

g_agZbhlZh_qklhlhfmthg_agZbhlZh_3

ZjZklk_jp_

[kqklyjngb`gb_

@

± \ebdh_keh ihjm=eQjebgmlZh_jhfZh_thZkf_jlg_fh_l

aZegblyhZkf_jlVhba\klb_h_hb[e

bg_aZVehh[jlZjfbjblkyk

gb^a

Zm]

kijZebhklqklv

g_gZklv

@ Rj_eeu deZkhdbf Zlhf jZklZg kihfgbe fm`kdb_ljZ au \

iehobo b ohjhrbo hklbgpZ ugmg^ggh_hbghqklh h j_fy <dZZ

ehkv_fm

ijhdeylb_f^a

ZjZjmrDZ

Ba aZhehZghh aZiZ jbg_keZ khfc_g_lhedh kmfhqm ihegmx ahehlZhb
hj_ohmx kdhjemidm imklhgZZZh\g_c aZexqgZkZkg_wg_jby he__
^ckl\ggZqf^ bgZblh_ljla
Zf_oZa_a
jZklbhjy
Hjf b^l j_q\ Zghf njZ_gl_ dhfm ba_ljh_\dgbh jbgZ_bl wlh
\kdkZuZb_ "
ijbZbabl_eghlZddZmagZrvgsbgmdhlhjmxeZbekhk_ffhehfcZb^ee_l
qj_aZuZa^ blkyhgZjhjhjZhekl_eZogh_fmZeh\dg_lhedh
khklhyl_eguc gh b ij_mki_Zsbc hg dmibe_c beem fzZgm hjhZ_dhepZnke_
lZcklj_hgZjZmxexhZbjZrkbjhgbc^a
Z=jfZbbjhjghe^j_g_
h bagbhjhjml_xghklb

(III (2

D **D** ?
a :f_jbdm
b :kljZbx
c hkkbx
dhij_jZkyj_hjAZZjhcih\klbNjZpDZdbQ_jZ gb_ "
a khZm
b gZ_dhfh_
c dhZ
Gki_pbZabjm_lkyomhgbdLblhj_eebbajhfZDZdbQhp_kk"
a I_caZ
b GZjfhjlu
c Ihjl_lu
AjZheZkydZp_eyjbbkmhjhZ_DZdbQhp_kk"
a GZjZbeuoZfh\
b ihZ_lxjfu
c qeZZ
QaZghZkiyijhp_kkgZa_nhfDjhZ_DZdbQhp_kk"
a Kf_jlgufijbhjhZ
b hfZg_hdhgqgbwibahZkiheg_gbyijbhjZ_dkl_hlkmlklm_l
c IhfbehZb_f
DZyjh_nkkbymeZhh_ljhyjhZ_ZjZpDZdbQZhd"
a DhffbhyZ
b Dhff_jkZ
c A_fe_f_j
DZaZbfmn_lbpmbihjmZhh_ljhyjhZ_DZdbQZhd"
a E_gb
b NjbZ
c Njh
DZbfbhlgufyey_lkyi_bpZa_nbgZ
a Furv
b DhrdZ
c DZj_cdZ
Qij_KZyekhfcumfZgucDZdhckdZhguci_jkhgZhd"
a hZjys_ihe_gh
b ;_ZsmxdZnrmdmkgbldZ

c E_lXsbcklme
dZh_ijnba\^gb_DzdbdexqgZblMjZzhgZ
a Ijbnhj
b Ahd
c Ijhp_kk

- ~~XXXXXXXX~~
h **h**
© - f_g__
© - 50% - 65%
© - 65% - 85%
© - 85% - 100%

pl_gngu_kj_klZdibl_jbbhp_gbZbyeyijhf_mlhghcZ_klZbb

- 3 ± k_f_klj ;

AZ ih bkpbiebg_ ukly_lky ijb mkehbb khex^gby klm^glhf -Zyf
~~XXXXXXXX~~ksbolj_hZbc
- ihk_s_gb_k_o e_dpbhgguo bijZbqkdbo aZylbc aZ_f_klj himkdZky g_he__
ijhimkdhdhlju_heguilkljZubgbbmZyhjihyd_
- uihg_gb_k_oazbcij_mkfhj_gguoZg hcjZqcihjZhcbkpbiebgu
- gZkZb_l_dmsbo l_klh\ khp_gdhcg_gb`
kemZg_khex^gbymdZguomkehbcAZijhhbkynhjf_mklghc[k_0ih
l_f_l_fZjhc^ggufaZ_f_klj

III

1. **h** **h**
2. ~~XXXXXXXX~~

13. ~~██████████~~

~~██████~~
b

14. ~~██████~~

~~██████~~
b

15. ~~██████~~

~~██████~~
z b

16. ~~██████~~ -gh\eeZ RZkkh ~~██████~~ ~~██████~~ egZ bklhjby I_l_jRe_fbey^Kh_bg_gb_
nZlBqkdhhj -khZgbl_ekijhahcj_zghcbagb

17. ~~██~~ ± jhfZbd DgbZi_k_g^ FghhZghklvebjbqkdhh Ljhy
Zg_cr__jZ blb_b aZr_gb_ dhgp_ipbb jhfZlBqkdhc bjhgbb Bjhgby dZ
nhjfaZ_gbydj_zghcbagbebygb =cg_gZjhmxihwabx

18. ~~██████████~~

~~██████~~
~~██████~~

~~██████~~

19. ~~██████████~~

~~██████~~
b

20. ~~██████████~~

~~██████~~
b

b

~~██████~~

~~██████~~

~~██~~ -ke_Rl\ggg_u_ kyab Hl nhjfmebjm_lky _l_jfbgZ gZadb baeh`g
ebl_jZnjgufyaudhfehZgghdZ_e_g^fhgklbjm_lZjkdmxihabpbxklm^glZ

~~██████~~
~~██████████~~
~~██~~ ~~██~~ ~~██~~ ~~██~~ ~~██~~ ~~██~~ ~~██~~ ~~██~~ ~~██~~ ~~██~~
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~~██~~

-wdaZ_g 4,5 ± k_f_klju
WdaZ_g ih bkpb ebg_ ijhhbky ih be_lZ\mklghc nhjf_ \khhl\lklbb k
l_fZijhc^ggufbaZhhhl\lklmxsbck_f_klj

1. ~~██████~~

~~██████~~
b

2. ~~██~~ ~~██~~

3. ~~██████~~

~~██~~ -kZjZihobg_f_pdhjmfZbafZ

4. ~~██████████~~
mfZbklhf

5. ~~██~~ ~~██~~ Y ~~██~~ ~~██~~ ~~██~~ ~~██~~

~~██████~~
b

6. ~~██~~

7. ████████ ████████ ████████ ████████
8. ████████ ████████ ████████ ████████
 ████████ - ████████_j_bk_lbd_ZhevB=^jZ\jZ_d_
 l_hj_lbqkdhcijhZuwlh\h`gby
9. ████████ ████████ ████████ ████████
 l_jZygeh\dZalj_lyhkhkehby
10. Njbjbo Rbee_j dZ ij_kl_evl_qgby @ny b gZkd^ ?h jZu
 DhcgdbDhZkhhbexhV
11. <cfZkdbcdeZkbpbfBk_ZaklL_fzhē_fBddZu
12. hfZbaf_ejfZbb;9,, ± i_jhc_lj_lb;,:dZhfZbaf_ejfZbbhZ
 oZ_jbkl bdZbehkhndh -wkl_lbqkdZijhZzhuc omh`kl_gguc_f_lh^
 f_lh^kboheh\qkdh\ZbaZghgu_ijbgpbuihjqkl\fbjb_`dmeV
 Omf_dlbafnZby
13. Hghgu_ijbgpbuihjqklZjhZbdh\ moh^\ ijreh_ mklj_fe_gb_ \
 wdahbqkdmx ZjhZbqkdZbjhgy AKemh_g_f_pdbo jhfZbdh\jZlbb
 fbjhcbg_f_pdhcebl_jZnju
14. ████████_j_bk_lbd_Zjw wZ\jhZbafZ_ejfZbb jZgbc beb B_gkdbc
 lc^eVjkdbc b ihaGbc jhfZbaf Zgbc beb B_gkdbc jhfZbaf
 ;jZ Njbjbo b :hkl beyef Re_leb hfZ GhZkZ@jbo nhg
 hl_jbgl^a - ijhZgh_ijhba\^gb_jhfZbdh\
 98-1800).
15. =c^eVjkdbcjhZbaf -dZ -cwlZ_f_pdhfjhZbaf_:obfnhg
 :jgbfbDe_f_gk;j_gZh ± \msb_ij^ kl_eblc^eVjkdhhjhZbafBo
 khjgbd g_f_pdbo ghguo i_k_g ker_guc jh]fZdZ;jZ dh[b
 beyefjffblc^eVjkdbcjhZbafKhjgbdghguo kdZhd@kdb_b
 k_f_cgu_kdZdb^a -1815).
16. IhaGbc jhfZbaf -1822). =gjbo nhg DE?KL gZmlb hl jhfZbafZd
 j_Zbafm ?h bklhj_bqkdZ gh\eeZa wihob Dj_klygkdhc hcg_u \EboZev
 DheoZ^
17. WL:hmfZGh\eeZ_gdbcPZ_kihijhaZbxPbgghLjKdZdZhehlhc
 hjrhda - j_Zbafbyhkgghguoijbgpbihj hfZbafZ
18. ████████ ████████ ████████ ████████
19. =gjbo =cg_ dZ ebjbqkdbc ihwl ?h DgbZi_k_g^a dZ khpbZguc b
 ikboheh\qkdbc hdmf_gl wihob JklZbb ebygb_ =cg_ gZhke_fmxxm
 ebl_jZnjm
20. Lhjqlh LhfZFGZhfZ @n^ghdb^a - fhoghZ bklhjby g_f_pdh
 kjlklZ
21. ████████ ████████ ████████ ████████
 ████████ ████████ ████████ ████████
22. LhfZ FZg ± fZl_j nbehkhndh -bgl_ee_dlmZyhc ijhau Nbehkhndb_ jhfZu
 ker_gZjhZchlZcfZ\llhjNzklmk^a
23. =gjbo FZg ?h jZgb_ khpbZgh -djblbqkdb_ jhfZu @_fey h[lhZgZ^a
 Mhl_egmk@ghihZguc^a
24. =gjbo F Zg dZ fZl_j bklhj_bqkdhh jhfZZhh jhfZu h njZpmakdhf dhjhe_
 =gjbo_9@ghklb@j_ehklhjhhey=gjboZ^a
25. Ebhg N_colZlj Ijhē_fBdZjZgbo bklhj_bqkdbo jhfZh\ @ahZgZ
 ljphhgy@cAxkkBklhj_bqkdZdhgp_ipbyEbhgN_col ZljZ

- 26. Ebhg N_colZlj Ijhē fbdZ h ihaḡbo bklhjbqkdbo jhfZ h njZpmakdhf
fukebl_e_bibkZ_e_@ -@ hkkh@mfhklmZbhpkiZkdhfomhḡbd_
NjZpbkdh^hc_@y beb Lyḡbc imlvhagZby^Whexpby_h bklhjbqkdhc
dhgp_ip bb
- 27. Lhjqlh BhZg_kZhljZ;_o_jZ?h ihwaby :lhphjZbqkdbc jhfZ
ḡhsZb_a
- 28. Lhjqlh keeb;j_ey hfZu h bklhjb jZq h ḡby \jfgbb dhgpZ
O,O - gZk_j_ḡguOO_dZjbehbyḡgu_bagZhf_u_ḡuḡughy^
© mdb^a

- 1. ~~1.1~~ u - @_jlu_ hklZky fhehḡfb^ K_ḡhc
dj_kl^a
- 2. Lhjqlh WF JfZ:glbfbeblZbklkdZ b ZbnZbklkdZ l_fu_h
ijhba^gbc @AZhf njhgl_ [a i_j_f_g ^ḡjb lhZsZḡjbmfnZyZ
Z
- 3. ;_jlheḡ;j_ol dZ l_hj_lbd l_ZZ jZmj]?h l_hjby @ibqkdhh l_ZZ
jZuḡmrdḡmjZ_ ^lḡucqeh\dbaKumZb^a
- 4. ;_jlheḡ;j_ol ± l_hj_lbd wibqkdhh l_ZZ jZmj]?h jZu @ be_c^a
ḡZkdbcf_ehḡcdjm^
- 5. ;_jlheḡ;j_ol dZ iheblbqkdbcihwl?hiheblbqkdZihwabyjZguoe_ lḡ_lgZ
f_jlhf kheZ^a @kgv khebZghklb^a @kgv ?ḡgh njhglZḡjhku
ḡlZs_h jZq^a @ ihemḡeZ gZkheZKyav;j_o lZk jZqf b
ZbnZbklkdbf ḡ_gb_f \ -30-] ;; \ FZ_gdb_ ivku ba_h
ZbnZbklkdh pbdeZljZ b hlḡgb_ Lj_lyc Bfi_jbb^aḡehlgu_ kheZ^a
@_ehḡcdj_klḡibd@Z -_j_cdZ
- 6. kenZ;jho_jl:glbh_ggZb ZbnZbklkdZl_fZ lbdZyku @Znebp_i_j_^
^jxḡdhjldb_jKkdZubklbobL_fbdZhe_fuihwlbDZ
- 7. kenZ;D_ii_g L_fZg_ij_hhe_ggh ḡZbklkdh ijhreh l_fZ jhfZ
ḡf_jlhf_a
- 8. jmiizZheblbqkdh_b dmelmjgh -wkl_lbqkdZ;jh jZemj_^ :g^jr b
Zk<jg_jbol_jdZkhghZebḡniu^a
- 9. ḡjbo ;_ev Ljb nZlhZḡbyrb_gZ_h lhjqlh kh_gghklb_h
omh`kl_gghhf_lhZglbḡggZb ZbnZbklkdZl_fu_hjZg_flhjql\
jKkdZḡimlgbddhZu_jb^rKizM jhfZu @luḡe:Z
ḡ_l_ahaybgZ
- 10. ḡjbo ;_evL_fZKqZk g_ij_hhe_gguf nZbklkdbf ijhreuf \jhfZ
ḡeyjḡheḡḡ^kylhḡḡmiihḡcihlj_lkZc^a
- 11. ḡjbo;_eDjblbqkdh_bahfZgb_ ^cklḡl_eghklbNf 0- 70- _hfZḡ
g_kdZgb_ḡghḡkehḡḡdehmgZgh_eeḡjmgZgZklDḡgu
;exf^a
- 12. FZbgZ_j - djblbd hḡ_klḡlj_ḡ_gby^hfZḡbebiikḡj_kdb_jZb^a
DjblbdZhpḡZgh hijbkihkhḡ_gbyḡ_gdhḡḡeh\ dZ
- 13. xgl_j_jk hḡc hāhj lhjqlZpbkdZljbehby @lyghc Z
ḡhrdZfurḡḡḡḡBahfZgb_kmḡḡeh\ dZ_ihomḡZbklkdh
ZklZ
- 14. xgl_j_jk kh_gghklb_h omh`kl_gghhf_lhZḡḡlyghc Z
Iḡḡ ydZkhghgh_omh`kl_ggh_kj_Rlh_jhfZ_Hhr_gb_dḡ_gdhfm^a
ḡeh_dm
- 15. ~~15.1~~
~~15.2~~
h

16. ~~h~~
17. Fzk Njbr R\cpzy - ijhaZd Qbee_j^aGzhm k_y z_gzg^a+ omo
 IDEH^a Ijhe_fZb^glbghklb qeh\d b _h khpbzzy jhev\ hf_kl\
 @lj_&_gby^a
18. ~~h~~
19. ~~h~~ gpbklkdbf ijhreuf \hjkl\ NjzpNXF:G: Khjgbd jkdzh\
 @_ckdbcZfhpeZhiheZ^a
20. bl_j Gheev hfz -behby Qbdexqgby <jg_jZ OheVZ Ij_hhe_gb_
 gpbklkdhijhrehhbihbkdbghuoi ml_c
21. Wjbg Rljblf Z_j ?h jhfzu Qh^c^a Qlv@ ;bgdhii^a - f_tz
 g_f_pdhhdj_klygbgZkZlebhcabgZ_fe_
22. DjbkLzen?_ih_klb bjhfzu Qdhehlh_g_hDure_gby hDjekl_L^a
 Qbf_jhg^h^lkL^he_fzbgklbkhpZbklbgkdhf hf_kl\Z
23. BhZg_k:hjhkdbc KhgZl_fZl_hjqklZfhlg hr_gb_g_fp_k bo
 hklhgufbkhk_yfbhfzu@blhkd_b_deZju@egbpZ_bgZ
24. &jfg DZ hfz @lhuc aZ ± ml_j^gb_ b djblbdZkhpZbklbgkdhc
 ^cklpl_eghklb
25. Wjbg RljblfZ_j dZ jhfzkl L_fZghuo ij_hfZhgbc \ihke_h_gghc
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26. Mejbole_gphjnlfzhijhe_fzhehhshu_kljZbyxghh^<
27. Ijhe_fufh^jgbaf Zihklfh^jgbafZhke_h_gghc g_f_pdhcebl_jZnj_Ihlhd
 khagZbybgmlj_ggbcfhghehD_ii_g@mpLjZ^a
28. Ijhe_fuihklfh^jgbafZAxkdbgZxf_j^a

___. Semester ___. Studienjahr
 20__/20__

DZ_jf_pdhyaudZ
 bkpiebgZ ebl_jZnjZfzbb

- ~~h~~
- ~~h~~

AZ_jhc

Ihfbkv

ij_theZ khgh_ eZgb_ bamqgguf fZjbZhf
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 ihegh_ehgh_b_lgh_hl_hgZnijhku_wdaZ_gZjZ IjbgfZlky \jZ
 ihk_sZihklvZylbc ZbghklvZZylbyo dj_Zguc ihoh^d bam qgbx mqghh
 fZjbZZ








hagZ hklZgh emhdh_hkh_gb_mqghh fZ_jbZZ
hgZ hklm^glumkdZj_e_ZgmxbgnhjfbxijbZdjulbb_lj_lbqkdhhijhkZ
beb_g_k_Zh_l_Znf_glbjhhkx_lhdm_aj_gby_Klm^gl_g_ k_Zjhyey_l
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hagZ kj_ghc_mjh_gvmkh_gby_hffZ
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l_f_himkdZ_jmfi_nZlbqkdb_hrbfb_khkl_gghf_ukdZuZbb_bkiuluZ
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




(2) ± wlh_gbadbc_mjh_gvijbh_lZguo_agZbc_b
gZdh_lj_bghchljbpZ_exhhblh_Zhml_livhimkdbazylbcbkyaZgu_kgbfb
g_hkiheg_ggu_ijh_l_eu_agZbyo_iZkbg_hlghr_gb_d_bamqgbx_ij_f_lZ
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hlghr_gb_dijZlbqk_dbfaZbyfl_qgb_k_hk_f_kljZ

3

3 -

1.  : Bklhjby aZm_lghc_ebl_jZnju hl :glbghkklb_h_k_j_bgu ;;
_dZl_Lhf_mqgbd_ey_mah\ ; : be_gkhg ^2 FhkdvBaZ_eklh_XjZl
2020.^2 260 k ^2 ukr_hjZhgZb_ ^2 ISBN 978-5-9916-7410-2.^2 L_dklwe_dljhguc
W;KXjZl_kZl@ ^2 URL: https://urait.ru/bcode/451862.
2.  : Bklhjby a Zm_lghc_ebl_jZnju hl :glbghkklb_h_k_j_bgu ;;
_dZl_Lhf_mqgbd_ey_mah\ ; : be_gkhg ^2 FhkdvBaZ_eklh_XjZl
2020.^2 417 k ^2 ukr_hjZhgZb_ ^2 ISBN 978-5-9916-7412-6.^2 L_dklwe_dljhguc
W;KXjZl_kZl@ ^2 URL: https://urait.ru/bcode/451863.
3.  
kn < F LhefZjZjZjZ^Zpb_c< F LhefZjZjZjZ ^2 3-_ba^_j_jZhi ^2
Fhkdv_BaZ_eklh_XjZl ^2 430 k ^2 ukr_hjZhgZb_ ^2 ISBN 978-5-534-
08391-0.^2 L_dklwe_dljhgucW;KXjZl_kZl@ ^2 URL:https://urait.ru/bcode/450052.
4.   - gZh ;;
_dZl_mqgbd_ey_mah\ < F LhefZjZjZjZ^Zpb_c< F LhefZjZjZjZ ^2 2-_ba^
i_j_jZhi ^2 FhkdvBaZ_eklh_XjZl ^2 362 k ^2 ukr_hjZhgZb_ ^2
ISBN 978-5-534-08191-6.^2 L_dkl we_dljhguc W;K XjZl kZl@ ^2
URL: https://urait.ru/bcode/450501.
5.  Bklhjbyg_f_pdhcebl_jZnju : Rxd_i_j_hhd? : G_djZhZ^
j_Zpb_c B B eb_gdh ^2 Fhkdv_BaZ_eklh_XjZl ^2 303 k ^2 :glhehpy
fukeb ^2 ISBN 978-5-534-11703-5.^2 L_dkl we_dljhguc W;K XjZl kZl@ ^2
URL:https://urait.ru/bcode/457177.

3.

1.   G Bklhjby aZm_lghc_ebl_jZnju;9,, -;9,,_dh_mqgbd_ey_mah\ /
< G_Zbg < : Emdh? G_QghahZ ih^j_Zpb_c < G_ZbgZ ^2 Fhkdv
BaZ_eklh_XjZl ^2 415 k ^2 ukr_hjZhgZb_ ^2 ISBN 978-5-9916-5617-7.
^2 L_dkl we_dljhgucW;KXjZl_kZl@ ^2 URL: https://urait.ru/bcode/450346.
2.  : Bklhjby aZm_lghc_ebl_jZnju wihob hfZlbafZ_jZ_lj_lv
;:_dZl_mqgbd_bijZl_bdmf_ey_mah\ ; : be_gkhg ^2 FhkdvBaZ_eklh_XjZl
2020.^2 426 k ^2 ukr_hjZhgZb_ ^2 ISBN 978-5-534-01334-4.^2 L_dklwe_dljhguc
W;KXjZl_kZl@ ^2 URL: https://urait.ru/bcode/450812.
3.   ? F :i_gdh_bj@
ih^j_Zpb_c? F :i_gdh ^2 2-_ba^_j_jZhi ^2 FhkdvBaZ_eklh_XjZl
2020.^2 418 k ^2 ukr_hjZhgZb_ ^2 ISBN 978-5-534-03182-9.^2 L_dklwe_dljhguc
W;KXjZl_kZl@ ^2 URL: https://urait.ru/bcode/450603.

4. G L Iðkÿg b
 J@ ihñf_cj_ðpb_cG L Iðkÿg 2 3-_baðkijbñi 2 Fh kdðæ_eklh
 Xjð 2 433 k 2 ækr_hjðhð_ 2 ISBN 978-5-534-07123-8. 2 L_dkl
 we_dljhgucW;KXjðkð@ 2 URL: <https://urait.ru/bcode/452260>.
5. F I :e_dk_\b_jðh^_ðpb_c
 E G Ithemÿjybgñhc H : K\leðhñc : 0_ð 2 Fhkdðæ_eklh Xjð
 2020. 2 214 k 2 ækr_hjðh\ 2 ISBN 978-5-9916-1270-8. 2 L_dklwe_dljhguc
 W;KXjðkð@ 2 URL: <https://urait.ru/bcode/450606>.
6. F I :e_dk_\b_jðh^_ðpb_c
 E G Ithemÿjybgñhc H : K\leðhñc : 0_ð < > :elðgñc : I ðdhð
 : X Fbjhexñhc 2 Fhkdðæ_eklh Xjð 2 395 k 2 ækr_
 hjðhð_). 2 ISBN 978-5-534-02682-5. 2 L_dkl we_dljhguc W;K Xjð kð@ 2
 URL: <https://urait.ru/bcode/451725>.
7. B Bklhjby aÿñ[ðhc ebl_jñju Kj_ðbo\dhmqgbd ðy mah\ /
 F B Gbdheð D Ihihð H Rððh\ 2 Fhkdðæ_eklh Xjð 2
 451 k 2 ækr_hjðhð_ 2 ISBN 978-5-9916-7038-8. 2 L_dkl we_dljhguc W;K
 Xjðkð@ 2 URL: <https://urait.ru/bcode/450182>.
8. F Aÿñ[ðhc ebl_jñju ðhgð; - gð; \dðngbd ðy
 ðy\ < F Lhefð 2 4-_bañ_j_jðñi 2 Fhkdðæ_eklh Xjð
 2019. 2 811 k 2 ;ðy:dðfbqkdbc dmjk 2 ISBN 978-5-9916-3136-5. 2 L_dkl
 we_dljhgucW;KXjðkð@ 2 URL: <https://urait.ru/bcode/444151>.
9. H Bklhjby aÿñ[ðhc ebl_jñju wihob kajh^gby mqgbd b
 ijðbdmf ðy ððfbqkdhñ ðððð B . H Rððh\ 2 3-_baðkij b ñi 2
 Fhkdðæ_eklh Xjð 2 699 k 2 ;ðy:dðfbqkdbc dmjk 2
 ISBN 978-5-9916-3764-0. 2 L_dkl we_dljhguc W;K Xjð kð@ 2
 URL:<https://urait.ru/bcode/426185>.

7.3.

- <http://www.goethe.de/ins/ru/lp/prj/ums/mat/deindex.htm> -
- <https://www.dw.com/de/deutsche-literatur/a-50590101>
- <http://www.spiegel.de/> S
- <https://www.tatsachen-ueber-deutschland.de/de/rubriken/auf-einen-blick> " □
- -
- https://www.duden.de/g_f_pdh-g_f_pdbckehð-kijðgbd© Duden^a

-ijh_dlhj
 EPSON dhfixl_j SAMSUNG dhegdb SAMSUNG ð^ Klððgð
 mqgð f_lev ihkðguo f_klZ f_klh ij_ihðey dð_jð
 fmelbf_bñh_dlhj ViewSonic ghmlñnd SAMSUNG wdjð ñkdðkð_ggð
 lj_owe_f_glððñebgñhguc dðg_l Ki_pððabjñgðmqgðf_lev

9.

Kaspersky Endpoint Security by bag_kZkZguc :Hjby DK_jkdh^a
ebp_gaby FB6-161215-133553-1-6231.

Microsoft Open License, ebp_gaby 49463448 \ khkZ :

-Microsoft Windows Professional 7 Russian;

-Microsoft Office 2010 Russian.

ДОКУМЕНТ ПОДПИСАН
ЭЛЕКТРОННОЙ ПОДПИСЬЮ

Сертификат: 03B6A3C600B7ADA9B742A1E041DE7D81B0

Владелец: Артеменков Михаил Николаевич

Действителен: с 04.10.2021 до 07.10.2022