

:dlmZevgu_ gZijZ\e_gby gZmqguo bkke_ ^H

N?E

; = Eikmnlj]
Zkkbkl_gl dZn_ ^ju
Jhkkbckdbc]hkm^Zjk
ijhn_kkbhgZevgh i_^Z]h]bq_kd
; ; Mcgech
ij_ih^Z\ZI_ev
Kb[bjkdbc ijhn_kkbhgZevgu
] Hfkd Jhkk

=IBGIAHILMW CBG@H@HCZ I<T@>I JKCHQCJ;
= LO@K@ CHOIKG;QCIHHVP M@PHIFI>CD

ljb kh\i_f_gghf \a]ey^_ gZ kh\i_f_ggh_ h]iZah\Zgb
l]hn_kkbhgZevgh_ h[mq_gb_ ih h]iZkeyf ih gZij
l_ogheh]bb fh`gh m\b^_lv q]h dheba_kl\h ^bkpbie
ghklb fgh]h mq_[guo qZkh\ \u^_ey_lky bamaq_gbx ij
\i_fy [_a ^he`gh]h \gbfZgby hklZx]ky ^bkpbiebg
]h \gbfZgby gZ jugd_ ljm^Z lZdb_ dZd Z^fbgk]bjh
l_dlmjZ \uqbkebl_evguo k_l_c

lh^h^y blh]b ih ZgZebam jZ[hqbo ijh]jZff ih ^Zg
am_fuo \ kbkl_f_ KIH fh`gh k^_eZlv \u\h^ q]h ijb b
ghfm gZijZ\e_gbx ihyley_lky g_h[oh^bfhklv ^h[Z\e
lhgh ijZdlbq_kdbo aZqylbc Q]h h]jbpZI_evgh \eby_
hgZevguo dhfi_l_gpbc klm^_glh\ dhee_ ^`Z

Dhg_qgh mq_[gZy gZ]jmadZ ih gbf ^hklZlhqgZy b
gby l_hj_lbq_kdh]h fZI_jbZeZ b ijhoh`^_gby l_kljbh\Zg
aZqylby ^ey kZfhklhyl_evghc jZ[hlu mqZsboky g_ ij
g_ ^hklZlhqghf h]tztz_ ljbh[j_l_ggu_ agZgby ihke_ hd
eyx]ky q_ ihegufb K^_eZ_f \u\h^ q]h klm^_gl ih hdh
^bl k [hevr]bf [ehdhf l_hj_lbq_kdbo agZqbc gh k g_[l
ke_ ^h\ZI_evgh ijb mkl]hckl\ _ gZ jZ[hlm hg kfh`_l [e_k
jZ[hlu gZ ij_^ijbylbb b klhedg_lky k ijh[e_fZfb ih bo l

>ey memqr_gby ^Zgghc kblmZpbb ke_ ^m_l kdhjj
pbx b f_lh^u h[mq_gby bgnh]fZpbhgguf l_ogheh]byf

lk^[hcb[qcwlh klj_fe_gb_ h[s_klZ]hlh\blv fheh^u
hiul b gZ\udb hl klZjr_]h ihdhe_gby feZ^r_fm Khh
^he`_g ihklZjZlvky gZmqblv \ i_j\mx hq_j_ ^v lhfm
mq_[guc fZI_jbZe \ g_dhlhjuo kemqZyo jZa[bjZlv g
lhf [m^ml ijZdlbq_kdb_ aZqylby <uoh^ ba ^Zgghc
ijZdlbq_kdbo qZkh\ k mkbe_gguf mdehghf gZ kZfhkl

Lk`_lm][i\k[bi][hcZ

< gZklhysbc fhf_gl hkgh\gufb kj_ ^kl\Zfb h[mq_gb
Zeu ij_a_glZpbb b gZ]ey^gu_ ihkh[by W]h iha\he
\eh`blv [Zah\u_ agZgby

I_^Z]h]bq_kdb_gZmdb

Gh ^ey ih^]h]h\db dhfi_l_g]gh]h]b[dh]h dhgdmj_g
kikhk[gh]h d ijh^mdlb\ghc ijhn_kkbhgZevghc ^_yl_ev
^_eZlv [hevrbc mihj_g_gZ bamq_gb_mq_[gbdh\ Z g
fh`ghklvx kZfhklhyl_evgh]h j_r_gby aZ^Zq dhlhju_ \ha
qZxs_]hky [m^_l gZdZieb\Zlvky k\hc kh[kl\gguc [Z]Z
hg \ ^Zevg_cr_f g_ [m^_l kh_jrZlv LZdbf h[jZahf o
fh`ghklv m^_eylv [hevr__ \j_fy kZfhklhyl_evghfm ljm^
\Zl_ey iha\hebl gZmqblv [m^ms_]h ki_pbZebklZ kZfh
gby g_klb aZ gbo hl_lkl_gghklv b ij_^eZ]Zlv ^_ckl\
`b\rboky aZljm^g_gbc \ ijhn_kkbhgZevghc ^_yl_evghkl
^bfZ [ZaZ gZ dhlhjhc fh`gh jZ[h]Zlv mq_[gu_ dZ[bg_
fZl_jbZehf GZijbf_j ^bkpbiebgZ Dhfvxl_jgu_ dhffmg
jb\Z_l bklhjbx \b^u b ijbgbiu jZ[hlu b ih^dexq_gby
we_f_glu ex[hc k_lb lZdb_ dZd jhml_ju fZjrjmlbaZlhj
lhev dh gZ dZj]bgdZo b j_^dh dh]^Z ^himkdZxlky d jZ[
m\b^_lv gZ ijZdlbq_kdbo aZgylbyo dZd h[mqZxsb_ky m
b ijh\h^yl gZkljhcdm k_lb ljb hkms_kl\e_gbb lZdbo ijZ
khh[jZag_c bkihevah\Zlv \bjlmZevgu_ fZrbgu ^ey gZkljh

G`mi_v i\k[bi][hcZ

?kl_kl_ggh qlh aZ bklhjbx f_lh^u h[jZah\Zgby f_g
oh^ GZ hkgh_ BgnhjZpbhgguo l_ogheh]bc fh`gh jZk
gby >himklbf i_^Z]h] jZkkdZau\Z_l h dZdhc eb[h ijh
l_f kZfuf ih[m^_Z_l h[mqZxsboky \ ih^h[ghc kblmZpbb
fh`gu eb gZclb ^jm]b_ imlb j_r_gby ^Zgghc ijh[e_fu"

<h i_j\uo \ ,7 l_ogheh]byo ijh[e_f _ebdh_ fgh`_kl
\k_ g_\hafh`gh aZ i_jbh^ h[mq_gby

<h \lhjuo jZa\b]b_ l_ogheh]bc ijhbkoh^bl _`_ag_gl
i_^Z]h] h[yaZg \ i_j\mx hq_j_^v kZf agZdhfblvky k gh
mqZsboky \ lZdhf \b^_ qlh[u aZbgl_j_kh\Zlv bo

< l_j_lvbo \ kh_j_f_gghf fbj_ mqZsb_ky \ [hevrbgk
ex^vfb ijh^b]gmlufb gh bo jZa\b]b_ aZklhijbehkvgZ
^Zxl ex^yf m_j_gghklv \ lhf qlh emqr_gbq_]h g_l B

Ba \k_]h \ur_kdZaZggh]h ke^m_l \u\h^ qlh]h\hjj
l_ogheh]bc fheh^uf ki_pbZebklZf g_h[oh^bfh m_ebqbl
Zdlb\guo f_lh^h\ gZijbf_j

Дискуссия q_f qZs_ _^_lky h[km`^_gby \hagbdr_c ijh
_jhylghklv qlh fZl_jbZe mk\hblky emqr_

Создание проблемной ситуации на занятии j_r_gb_ ijh[e_fu ih[m^
h[mqZxsboky Zdlb\gh \dexqZlvky \ ijhp_kk ihbkdZ j_r
kl\my emqr_fm mk\h_gbx fZl_jbZeZ

Проектный метод ^Z_l \hafh`ghklv fh^_ebjh\Zlv kblmZpb
hljbpZl_evgu_ fhf_glu khklZ\^_gby iheghc dZj]bgu j_r
qb ba j_Zevgh]h hiulZ jZ[hlu ki_pbZebklZ \ kn_j_ ,7

:dlmZevgu_ gZijZ\e_gby gZmqguo bkke_ ^h

Bkihevah\Zgb_ ^hklmighc fZI_jbZevgh l_ogbq_k
g_hlt_fe_fhc qZklvx h[mq_gby qlh iha\hey_l h[jZah
imkdZlv]jZfhlguo b dhgdmj_glgh kihkh[guo ki_pbZ

Ljclie fcm`k[mnkv
Hjeh\ : : <_^_gb_ \ i_^Z]h]bq_kdmx ^_yl_evghklv l
: : Hjeh\ : K :]Znhgh\Z lh^ j_^ : : Hjeh\Z F : dZ^_fby
Lheklh\Z G K ljbdeZ^gu_ Zki_dlu ijhn_kkbhgZevghc ih
eZklb ijh]jZffbjh\Zgby G K Lheklh\Z Bggh\Zpbhggu_ ij
l_hjby b ijZdlbdZ jZa\blby fZI_jbZeu 9, <k_jhk gZmq ijZdl
[mj] < l L Jhk]hk ijhn i_^ mg l ?dZI_jbg[mj]
N_^_jZevguc]hkm^Zjkl_gguc h[jZah\ZI_ev guc klZg^Zjl
F \h h[jZah\Zgby b gZmdb Jhk N_^_jZpbb F ljhk_s_gb
< ; = Eikmnlj] ; ; Mcge

N?E

J = Enlmi]
d i g ^hp_gl aZkem`_gguc jZ[hlgbd \ukr_
KZgdI l_l_j[mj]kdbc mgb_jkbI_
] KZgdI l_l_j[mj] J

E = IJKILN I K@DMCH>I=ID LCLM@G@ IQ@HE
NR@<HID ?@ZM@FWHILMC

< gZklhys__ \j_fy \ukrZy rdheZ Jhkkbb i_j_oh^bl h
hgghc agZgb_hc fh^_eb ih^]hlh\db ki_pbZebklZ d d
^_jZevguo]hkm^Zjkl_gguo h[jZah\ZI_ev guo klZg^ZjlZ
eZ]Z_l \g_^j_gb_ dZq_kl_ggh gh_hc kbkl_fu hp_gdb
ijh]jZffZf \ukr_]h h[jZah\Zgby GZ[hj h[s_dmevlmjguo
l_gpbc ij_^iheZ]Z_l gh_ih_ ijh_dlbjh\Zgb_ j_amevlZlh\
J_clbg]h\Zy kbkl_fZ hp_gdb dZq_kl\Z h[mq_gby
lbg] ih ^bkpbiebg_ mqblu\Zxsbc l_dmsmx ij_^Zj
blh]h\mx jZ[hlm h[mqZxsbooky \h \lhjuo kh\hdmigu
^Zxsbc mki_Z_fhklv h[mqZxsbooky ih \k_f ij_^f_lZf
gh]h k_f_kljZ \ l_j_lvbo j_clbg] mq_[gh]h \a\h^Z]j
pbZevghklb gZijZ\e_gby ih^]hlh\db dZn^_ju b i_^
f_klj beb mq_[guc]h^ \ q_l_jluo bgl_]jZevguc j_
fhklv klm^_glZ \ p_ehf \ l_q_gb_ dZdh]h lh i_jbh^Z
lj_bfms_kl\Z j_clbg]h_hc kbkl_fu hp_gdb dZq_kl\
qlh hgZ hij_^_ey_l ko_fm jZ[hlu ij_ih^Z\ZI_ey h[m
jZah\ZI_evghc hj]ZgbaZpbb ih h[_ki_q_gbx g_ij_ju\
ghc ^_yl_evghklb k ijb_f_g_gb_f ijh]jZffgh]h h[_ki_q_
G_h[oh^bfh ih^q_jdgmlv qlh ^ZggZy kbkl_fZ j_rZ_
qZxs_]hky i_^Z]h]bq_kdh]h jZ[hlgbdZ b h[jZah\ZI_ev