

PUBLICATIONS (Peer-reviewed): VXHIQWVXSIUYWVIH EUI XQHIUWQIH

*++' ?RdaVcd% 8'% **Hopcroft, R.R.** % @Z`cS`V% I'% A` ^SRcU% ;'% A`aV&k&JccfeZR% 6'% :gVcVee% ?'9' !
GZTYRcUd`_% 6' ?' #+)+,\$ <V]ReZ`_` fd]RcgRTVR_ k``a]R_`e` _ TR_ V_YR_TV ec`aYZT ecR_dWVc R_U TRcS` _
dVbfVdecReZ`_' *AUIQHV 4GR0% 4YR0%*

*)O' @`d`S` \ `gR% @'C' ! **R.R. Hopcroft.** +)+* E` af]ReZ` _ decfTefcV% gVceZTR] UZdecZSfeZ` _% R_U WVTf_UZej
`W 4XNURLQME LEPEWE #8YRVe`X_ReYR\$ Z_eYV 6cTeZT DTVR_ UfcZ_X df ^ ^Vc' 3 IIS\$@IE ?IV% 8% 1693
*), - . -

*)/'A@Z^fcR% ;'% N' 6SV% @' BRedf_`% **R.R. Hopcroft!** ! 6' NR^RXfTYZ' +)+)' IV^a`cR] TYR_XVd `W
k` `a]R_ \e` _ T` ^ ^ f_Zej R_U a`af]ReZ` _ decfTefcV Z_eYV _ `ceYVc_ 7VcZ_X HVR Wc` ^ ?f_V e` HVaeV^SVc
Z_+)*O' 3 IIS @IE ?IV% 88% 181-1823 *)-2)*

*) . **R.R. Hopcroft** 8' ARAR_UV% 9'6' He`T\ hV]]% 6' B'E
BT9` __V]]' +)+)' : iecR`cUZ_Rcj TRcS` _ W]fiVd` _ eYV dYR]]` h ERTZWZT 6cTeZT dYV]W UfcZ_X R
cV^Rc\RS]j hRc^ R_U]` h dVR ZTV aVcZ`U' ;c`_eZVcd BRc' HTZ' 7: 21/

*)-' FfVdeV]]' ?' B' % G' G' = `aTc`We% = ' B' 9V=Rce% 8' 6' H^` `e% @' C' @`d`S` \ `gR% R_U 6' 7ft\]Z_'
+)+*' B VeRSRcT`UZ_X `W k` `a]R_ \e` _ UzgVcdZej hZeYZ_eYV 8Yf\TYZ 7`cUVc]R_Ud% 6cTeZT DTVR_3
>^ac`gVU cVd`]feZ` _ Wc` ^ ^ f]eZ&XV_V ^Rc\Vcd R_U cVXZ` _&daVTZWZT 9C6 UReRSRdVd' ; EU% I MRHMY% 51:-

*) , ' 7]fY^% 7'6% B'6' ?R_`fe% H'A' 9R_ZV]d` _% >' :]]Z_XdV_`% B' <RgcZ]`% ?' B' <cVS^VZVc% **R.R.
Hopcroft** @' >\V_`G'7' >_XgR]UdV_`% A'A' ?ncXV_dV_`% @'C' @`d`S` \ `gR% G' @h` \ % >'K' E`]jR\`g%
E': 'GV_RfU% ! : '8' 8Rc^RT\'+)+)' IYV aR_&6cTeZT T`_eZ_V_eR] d]`aV3 dYRca XcRUZV_ed `W aYjdZTR]
ac`TVddVd RWWWTe aV]RXZT R_U SV_eYZT VT`d]deV^d' 5UROWUIV ; EU% @GM% 7: . - . , 1/

*)+' Azy` Q B' 6# B' Qs,a] dZT \$fcmý ?OL RcuRyaDm Fca]Dh' y.R \$eQ5 'D ä - ■ PTM5H@y Oy.5 Q ,H } Oñ ð ° à

2, ' GfekV %>'% ! **R.R. Hopcroft** +)*1' 6Sf_UR_TV% SZ` ^Rdd R_U T` ^ ^ f_zej decfTefcV `W VaZaV]RXZT
k` `a]R_ \e` _ Z_ eYV 8R_RUR 7RdZ_ ' 9% >0EQNWRQ ?IV% **40:** -1/&-22'

00' CZXc`% A'B '% B'K' 6_XV]@' 7JRTY` hZR\&HR^`]j\% **R.R.**

/' 8`j]V% @'D%' <'6' <ZSd`_@' =VUdec` ^% 6' =Vc ^R__% ! **R.R. Hopcroft.** +)*,' O` `ajR_\e` _
SZ` ^Rdd% RUGvTeZ` _R_U ac`UfTeZ` _` _eYV _`ceYVc_ <f]W `W 6]Rd\R dYV]W Wc` ^ dz ^ f]ReZ` _d R_U WZV]U
`SdVcgReZ` _d' 9% ; EU% @/V% **1283** *1.&+)0'

/' , ' 9Rj% G'=% I'?' L VZ_XRce_Vc% **R.R. Hopcroft** A'6'B' 6Vced% 6'A' 7]R_TYRcU% 6': ' <R]]% 7'?'
<R]]Rhrj% 9': ' =R__Rj% 7'6' =`]]RURj% ?'I' BReYZd% 7'A' C`cTc`dd% ?'B' FfVdeV]]% ! H'H' LZdU` ^'
+)*,' IYV `WwY`cV _`ceYVRdeVc_ 8Yf\TYZ HVR3 R T` ^ a]Vi YZXY&]ReZefUV djdeV ^' 2RQW% @LI0J ?IV% **673**
-0&/.'

/' + ' FfVdeV]]% ?'B'% 8' 8]Rc\V% ! **R.R. Hopcroft**

- .)' **Hopcroft, R.R.** ! '@'C' @`d`S` \ `gR' +)*)' 9ZdecZSfeZ` _R_U VXX ac`UfTeZ` _ `W >VIXHRGE0EQXV
daVTZVd Z_ eYV 8Yf\TYZ HVR' 3 IIS\$@IE ?IV% 88% 573-2& ./
- 2' **Hopcroft, R.R.**, '@'C' @`d`S` \ `gR ! 6>'EZ TYf\'+)*)' O` `a]R_ \e` _ T` ^ ^ f_Zej aReeVc_d Z_ eYV
8Yf\TYZ HVR UfcZ_X df ^ ^ Vc +))-' 3 IIS\$@IE ?IV% 88% 573 +0&, 2
- 1' @`d`S` \ `gR% '@'C' ! **R.R. Hopcroft** +)*)' 9ZgVcdZej R_U gVceZTR] UZdecZSfeZ` _ `W ^Vd`k` `a]R_ \e` _ Z_
d 8R_RUR 7RdZ_ ' 3 IIS\$@IE ?IV% 88% 573 2/&**)
- 0' GRd\`W% '@'6% **R.R. Hopcroft** '@'C' @`d`S` \ `gR% ?:' EfcTV]] ! B' N` f_XS]feY' +)*)' ?V]]ZVd f

,, 'AZf% == ! R.R. Hopcroft' +)) /' <c` heY R_U UVgV]` a ^V_e `W <IRGE0EQXV J0IPWQKIUM&S0XPGLUXV Z_ eYV _`ceYVc_ <f]W `W 6]Rd\R3 gRjZUReZ` _ `W eYV RceZWTZR] T`Y`ce ^VeY`U Z_ T` JU hReVcd' 9% >0EQNWRQ ?IV% 283 10&*)*%
,+' Hopcroft, R.R.% ! 7'=' G`SZd` _' +)) . ' CVh ^Vd` aV]RXZT]RcgRTVR_d Z_ eYV XV_fd 5UMW00EUME Wc` ^ B` _eVcVj 7Rj% 8RjZW` c_ZR' 9% ; EU% IMR0% OVVRG% 853 // .&/01'
,* CRaa% ?' B` % R.R. Hopcroft% 8'I' 7RZvc ! 8' 8]Rc\ V +)) . ' 9ZdecZSfeZ` _ R_U daVTZVd&daVTZWZT VXX ac` UfTeZ` _ `W >VIXHRGE0EQXV Z_ eYV <f]W `W 6]Rd\R' 9% >0EQNWRQ ?IV% 273 -*. &-+/'
,)' Hopcroft, R.R.% 8' 8]Rc\ V% G'?' CVjd` _% ! @'6' GRd\` WW' +)) . ' O` `a]R_ \e` _ 8` ^ ^ f_ ZeZVd `W eYV 6cTeZTd 8R_RUR 7RdZ_3 eYV T` _ecZSfeZ` _ Sj d^Rj]Vc eRiR' >R0EU IMR0% 28: *20&+)'
+2' Hopcroft, R.R.% 8' 8]Rc\ V% 6' <' 7jcU ! 6' >' EZ_TYf\` +)) . ' IYV aRcRU` i `W ; IWUMHE daa' VXX ac` UfTeZ` _ cReVd3 6 _Vh eVTY_ZbfV R_U ^VRdfcV ^V_ed Wc` ^ eYV T` RdeR] <f]W `W 6]Rd\R' ; EU% 4GR0% >URK% @IU% 2863 *2, &+)*'
+1' GRd\` WW% @'6' % ?' : ' EfcTV]] ! R.R. Hopcroft. +)) . ' <V]ReZ` _ fd k` `a]R_ \e` _ `W eYV 6cTeZT DTVR_3]Q WWX `SdVcgReZ` _d f_UVc eYV ZTV' >R0EU IMR0% 28: +)O&+*0'
+0' H]ReVc% A'B' ! R.R. Hopcroft. +)) . ' 9VgV]` a ^V_e% Xc` heY% R_U VXX ac` UfTeZ` _ `W 2IQWURSEKIV EFHRP]QEQNV Z_ eYV dfSRcTeZT ERTZWZT' 9% >0EQNWRQ ?IV% 273 0*01'
+/' Hopcroft, R.R. +)) . ' 9ZgVcdZeJ Z_]RcgRTVR_d3 = `h ^R_j daVTZVd5 aa' - .&.O' 8Q/ GVda` _dV `W ^RcZ_V VT` djdeV ^d e` X]` SR] TYR_XV3 VT`]` XZTR] Z^ aRTe `W RaaV_UZTf]RcZR_d' <`cd\j% <% B'?' N` f_XS]feY ! 9' 9VZSV] #VUD% <`cU` _ R_U 7cVRTY HTZV_eZWZT EfS]ZdYVcd' ERcd'
+.' G`dV% @' % ?'8' G` WW ! R.R. Hopcroft' +)) -' Ec` UfTeZ` _ `W >IQMOME EYMURVWUMV Z_ @Z_Xde` _ =RcS` fc% ?R^RZTR' 9% >0EQNWRQ ?IV% 263 /) .&/* .'
+-' Hopcroft, R.R.% ! ?'8' G` WW' +)) , ' GVda` _dV `W ec` aZTR] ^RcZ_V aYje` a]R_ \e` _ T` ^ ^ f_ ZeZVd e` ^R_Zaf]ReZ` _d `W _fecZV_e T` _TV_ecReZ` _ R_U XcRkZ_X acVddfcV' IX00% ; EU% @GM% 733 ,20&-+)
+, ' EVcdRU% <% R.R. Hopcroft% B'@' L_VSSVc ! ?'8'G` WW' +)) , ' 6Sf_UR_TV% SZ` ^Rdd R_U ac` UfTeZ` _ `W TeV` _aY` cVd R_U ^VUfdRV `WW @Z_Xde` _ ?R^RZTR' IX00% ; EU% @GM% 733 ,02&,2/
++' Hopcroft, R.R., 8' 8]Rc\ V ! ; 'E' 8YRgVk' +)) +% 8` aVa` U T` ^ ^ f_ ZeZVd Z_ B` _eVcVj 7Rj UfcZ_X eYV *220 e` *222 :] CZm` R_U AR CZmR' >URK% =GIEQRKU% 543 +. *&+/'
+* L_VZ_XRce_Vc% I'?' IW E0% #R.R. Hopcroft R^` _X *1 `eYVcd\$ +)) +% IYV C` ceYVRde ERTZWZT <AD7 : 8 ac` XcR^3 T` RdeR] <f]W `W 6]Rd\R' =GIEQRKUESL[153 -1&/ ,'
+) ' CZV]dV% I' <% ; ; ' Bn]]Vc% H' HReRa` ` ^Z_% B' GZ_XfVee ! R.R. Hopcroft' +)) +) : XX YReTYZ_X cReV `W eYV TjT]` a` ZU T` aVa` U =MWRQE VM]MOMV Z_ RcTeZT R_U eV^ aVcReV hReVcd' ; EU% 4GR0% >URK% @IU% 2363 ,)*& ,)/'
*2' BRcZ_V O` `a]R_ \e` _ 8`]] `bfZf^ +` +)) *#R.R. Hopcroft R^` _X -) T` _ecZSfe` cd\$; ffcV ^RcZ_V k` `a]R_ \e` _ cVdVRcTY R aVodaVTeZgV' ; EU% 4GR0% >URK @IU% 2223 +20&,)1%
*1' Hopcroft, R.R., ; 'E' 8YRgVk ! ?'8' G` WW' +)) *% HZkV aRcRUZX^d Z_ T` aVa` U T` ^ ^ f_ ZeZVd3 R cV& ViR^Z_ReZ` _' 7[HURFMR0RKME 453/4543* , ,&*-*'
*0' Hopcroft, R.R.% ! 7'=' G`SZd` _' *222' 6 _Vh ^Vd` aV]RXZT]RcgRTVR_% ; IVRGLRUHEIXV IU[WLURGISLE0XV] da' _`g` Wc` ^ B` _eVcVj 7Rj% hZeY UVdTcZaeZ` _ `W Zed WZ]eVcZ_X Y` fdV' 9% >0EQNWRQ ?IV% 213 *2+, &*2, 0'
*/' Hopcroft, R.R.% ! ?'8' G` WW' *221' O` `a]R_ \e` _ Xc` heY cReVd3 eYV Z_]fV_TV `W WV^RjV dZkV R_U cVd` fcTVd` _ VXX ac` UfTeZ` _ `W ec` aZTR] ^RcZ_V T` aVa` Ud' ; EU% IMR0% 1323 02&1/'

- *.' **Hopcroft, R.R.** ! ?'8' G`WW' *221' O` `a]R_\e`_ Xc` heY cReVd3 eYV Z_W]fV_TV `W dZkV Z__Rfa]ZZ `W ec`aZTR] ^RcZ_V T` aVa`UZeVd' ; EU% IIR0% **1323** 10&2/'
- *-' **Hopcroft, R.R.** ! ?'8' G`WW' *221' Ec`UfTeZ`_ `W ec`aZTR]]RcgRTVR_d Z_ @Z_Xde`_ =RcS` fc` ?R^RZTR3 ReV hV ZX_`cZ_X R_ Z^a`ceR_e dVT`_URcj ac`UfTVc5 9% >0EQNWRQ ?IV% **203** . .0&./2'
- *, ' **Hopcroft, R.R.** ?'8' G`WW' ! = '6' 7` f^R_ ' *221' O` `a]R_\e`_ Xc` heY cReVd3]RcgRTVR_d `W eYV XV_fd OSSIQHMGXOEUME% 5UMWMOOEUME R_U =MNRSOIXUE Wc` ^ ec`aZTR] hReVcd' 9% >0EQNWRQ ?IV% **203** . ,2&...'
- *+' **Hopcroft, R.R.** ?'8' G`WW' ! 9' A` ^SRcU' *221' Ec`UfTeZ`_ `W ec`aZTR] T` aVa`Ud Z_ _VRcdY`cV hReVcd `WW @Z_Xde`_ ?R^RZTR3 eYV Z^a`ceR_TV `W d^R]] daVTZVd' ; EU% IIR0% **1303** .2,&/)-'
- **' **Hopcroft, R.R.** ?'8' G`WW' B '@' L VSSVc% ! ?'9'H' LZee' *221' O` `a]R_\e`_ <c` heY GRcVd3 eYV Z_W]fV_TV `W dZkV R_U cVd` fcTVd Z_ ec`aZTR] ^RcZ_V T` aVa`UZeVd' ; EU% IIR0% **1323** /0&00'
- *)' I fc_Vc% ?'I' % **R.R. Hopcroft** ?'6' AZ_T`]_ % 8' HRdd^R_ =fVdeZd% E'6' IVdeVc% ! ?'8' G`WW' *221' O` `a]R_\e`_ WVVUZ_X VT`]` Xj3 XcRkZ_X Sj ^RcZ_V T` aVa`Ud R_U T]RU`TVcR_d fa`_ TjR_`SRTcVcZR Wc` ^ @Z_Xde`_ =RcS` fc` ?R^RZTR' ; EU%4GR0% **193** *2.&+)1'
- 2' **Hopcroft, R.R.** ! ?'8' G`WW' *22/' O` `a]R_\e`_ Xc` heY cReVd3 UZV] VXX ac`UfTeZ`_ Z_ eYV T` aVa`Ud =MRLRQE% 4XW IUSWQE R_U 2RU[GEIXV Wc` ^ ec`aZTR] hReVcd' 9% >0EQNWRQ ?IV% **183** 012&1) , '
- 1' **Hopcroft, R.R.** ! ?'8' G`WW' *22.' O` `a]R_\e`_ <c` heY GRcVd3 : iecR`cUZ_Rcj ac`UfTeZ`_ Sj eYV]RcgRTVR_ =MNRSOIXUE HMRMGE Z_ ec`aZTR] hReVcd' 9% >0EQNWRQ ?IV% **17**

1' 7]fY^% 7'6%' G'G' <cRUZ_XVc ! **R.R. Hopcroft** +)***' 6cTeZT DTVR_ 9ZgVcdZeJ3 dj_eYVdZd' ; EU% IMRHMY%
41: *&-

0' HTYZRaRcV]]Z% H' ! **R.R. Hopcroft.** +)***' IYV 8V_dfd`W 6_eRcTeZT BRcZ_V AZWV3 9ZgVcdZeJ R_U 8YR_XV
Z_H` feYVc_ DTVR_ :T` djdeV`d' 3 IIS\$@IE ?IV% 88% 58: *&-

/' <cRUZ_XVc% G' 7'6' 7]fY^% **R.R. Hopcroft**% 6' <VScf\% @'C' @`d`S`\`gR% 7' HzcV_\`% ! ?'B'
L '+'*)' BRcZ_V AZWV_Z_eYV 6cTeZT' >_3 6'9' 9' BT>_ejcV' #VUS %
7]RT\hV]] EfS]ZdYZ_X AeU% CVh N`c\% aa'*1, &+)+

.' 7]fY^% 7'6%' @>\V% **R.R. Hopcroft.** +)*)' DSDVcgReZ`_d R_U Via]`cReZ`_`W eYV 6cTeZT'd 8R_RUR
7RdZ_R_U eYV 8Yf\TYZ HVR3 eYV =ZUUV_ DTVR_ R_U G J H 6 A 8 6 ViaVUZeZ`_d% 3 IIS\$@IE ?IV% 88% .03*&
*_

- ' 9Rgzd% 8' H' ! **R.R. Hopcroft** +))1' IYV UcZWeVcd' =GIEQ 6 IRKU% ; EK%# July 2008% +, &-)'

, ' 7]fY^% 7' 6%' G' <cRUZ_XVc% ;' =oe^R_% **R.R. Hopcroft**% 6' <cVSf\ ! 7'> HZcV_\`% +))1' :Z_
OV_dfd UVd BRcZ_V_ AVSV_d Z_ UVc 6c\`eZd' IMR0% XQVIUUTU DIMW 38: -) &-2'

+ ' 8cR_V% @% ?' E`eeVc ! **R.R. Hopcroft** OUGWIG ?IV% B%@%
193 , &*)

*' **Hopcroft, R.R.** +) , ' HaZ_V]Vdd h`_UVcd3 eYV aV]RXZT WRf_R' 2XUUIQW/9% ; EU% 4H% 193 *) &+*

MAJOR REPORTS:

*+ ' 6 fdeVc% E% 8]Rc\% B' G' =R]]&HaV_TVc% ?% =`aTc`We% G' G' >_XV]d% ?% AVgZ_% A' 6' % B VeRiRd% 6' % Ve R]'
+)+) ' 8YRaeVc OA' 8`_eZ_V_eR] H]` aVd R_U Hfs^RcZ_V 8R_j`_d' 8Q L`c]U DTVR_ 8`f_TZ] & HVT`_U
6ddVdd^V_e GVa`ce' aa'-, 0&- .+ '

**' BR]`_V% I% 6kkRc`% B% =`aTc`We% G' G' ERc\% 8% IRU`\`c`% @% IY`c_Uj\]V% B% R_U N`% H' +) +) '
8YRaeVc / 6' EJR_\`e`_#EYje`a]R_\`e`_O`_`a]R_\`e`_ 7RTeVcZR R_U KZcfdVd\$' 8Q L`c]U DTVR_ 8`f_TZ] &
HVT`_U 6ddVdd^V_e GVa`ce' aa'***. &* -)

*)' A`gV[\`j% 8' 8' g`_ FfZ]]WV]Ue% **R.R. Hopcroft** B' E`f]Z_% B' IYR]Vc% 6' 6cV_Ue% = ' 9VSVd% 6'
<Zd]Rd`_% R_U @'C' @`d`S`\`gR' +) *O' EJR_\`e`_ ERXVd / , &11 MQ 8 6 ; ; % VUZe`c' HeReV`W eYV 6cTeZT
BRcZ_V 7Z`UZgVcdZeJ GVa`ce' 8`_dVcgReZ`_`W 6cTeZT ;]`cR_R_U ; Rf_R#8 6 ; ; % 6\fcVjcz% >TV]R_U'

2' H_V]Xc`gV% E% : ' K' 7VcXYV% E' BZ]`d]RgZTY% E' 6cTYR^SRf]e% > 7RZ]]j% 6' 7cR_Ue% 6' 7fT\]Z_% B'
8]Rc\% ; ' 9RYU`fY&<fVSRd% E' =R]aZ_% **R.R. Hopcroft** @' @RdTY_Vc% 7' ARdTV]]Vd% A' 6' AVgZ_% H'
BV_UV_&9VfVc% 6' B VeRiRd% 9' DSfcR% G' G' GVVgVd% I' Gj_VRcd`_% @' He`T\d% B' IRckZR% 9'
IzeeV_d`c% K' I f__ZT]ZWWV% 7' L R]]RTV% G' L R_]Vdd% I' LVSS% E' 7Vc_R]%' GZTV% ! 6' G`dV_SVcX' +) * / '
8YRaeVc , -' <]`SR] EReeVc_d Z_ BRcZ_V 7Z`UZgVcdZeJ' ERXVd * &, 0 MQ IYV ; Zcde <]`SR] >_eVXcReVU BRcZ_V
6ddVdd^V_e #L`c]U DTVR_ 6ddVdd^V_e >\$' J_ZeVU CReZ`_d% CVh N`c\`

1' BZ]`d]RgZTY% E% I' LVSS% E' H_V]Xc`gV% : ' K' 7VcXYV% @' @RdTY_Vc% E' C' =R]aZ_% G' G' GVVgVd% 7'
ARdTV]]Vd% B' IRckZR% 7' E' L R]]RTV% C' 9f]gj% 8' 6' HZ^aWV_U`cWVc< HTYZ]]Z_XVc% 6' 7`fdeR_j% 7'
7' 8`]]VeeV% ?' : ' <cRgVd% 9' DSfcR% B' :UhRcUd% B' 8]Rc\% @' He`T\d% I' B`cRe`% K' I f__ZT]ZWWV% **R.R.**
Hopcroft E' 6cTYR^SRf]e% E' EVaZ_% ?' ?' Y_ L' I f__V]]% ; ' B`cVekd`Y_% : ' :dT`SRc&7cZ`_Vd% = '
D[RgVVC% ?' <`SZ_% B' CR\R`\R% @' ; f[Z]fcR% = ' NR^R`_`M' AZ% @' KV_\ReRcR^R_% 8' GRXYf_ReYR_%
8' A' <cZWWZeYd% C' ?' 7Ri% 6' ?' 7fe]Vc% 6' 7cR_Ue% = ?' <cZWWZeYd% ! ?' GZTV' +) * / ' 8YRaeVc , . ' :ieV_e
`W 6ddVdd^V_e `W BRcZ_V 7Z`]XZTR] 9ZgVcdZeJ' ERXVd * &. 1 MQ IYV ; Zcde <]`SR] >_eVXcReVU BRcZ_V
6ddVdd^V_e #L`c]U DTVR_ 6ddVdd^V_e >\$' J_ZeVU CReZ`_d% CVh N`c\`

0' BZTYV] 8' % ?' GZTV% 7' 7]fY^% 8' 9fRceV% K' <R]]fTZ% I' <Rde`_% ; ?' A' <`cUZ]]`% G' <cRUZ_XVc% **R.R.**
Hopcroft C' ?V_dV_% @' B fde`_V_% I' B fde`_V_% I' <' CZV]dV_% 6' CZV^Z% = ' Gf_V H\[\` JUR] #+)*, \$

6cTeZT BRcZ_V :T`djdeV^d' >_3 +)*,#VU'\$ 6cTeZT 7Z`U