

4VSZE HI -% - 6IGYVWMZMHEHI - 13/09

-4 HE TVSZE: 200.19.107.44/FSGE

4VSZE MRHMZMHYEP SY RS Q¢\MQS HSMW

1. %XIR`¤S ESW RSQIW HSW TVIHMGEHSW WYFQIXMHSW. :INE TVSX´XMTSW.

2. ' YMHEV RE JSVQEXE`¤S. )WXE ª I\EXEQIRXI E HSW I\IQTPSW.

3. 2¤S L¢ TIREPM^E`¶IW TSV WYFQMW¶IW IVVEHEW.

1. -QTPIQIRXI E WSQE WªVMI HEHE TSV:  $1*2 - 3*4 + 5*6 - 7*8 + \dots$

4VSX´XMTS HS TVIHMGEHS: WIVMI(2,<)

)\IQTPSW HI -/3:

#- WIVMI(4,<).

< ! -36 .

#- WIVMI(5,<).

< ! 54 .

#- WIVMI(1,<).

< ! 2 .

2. -QTPIQIRXI E VITIXM`¤S EPXIVREHE HI HSMW GEV¢GXIVIW UYEMWUYIV HI QSHS HIGVIWGIRXI EXª 0.  
8YHS RYQE QIWQE PMRLE.

4VSX´XMTS HS TVIHMGEHS: HSMWCG(< , = , 2)

)\IQTPSW HI -/3:

#- HSMWCG('#', '\*', 7).

#####\*\*\*\*\*#####\*\*\*\*\*#####\*\*\*\*\*###\*\*##\*\*#

XVYI .

#- HSMWCG('#', '\*', 0).

XVYI .

#- HSMWCG('#', '&', 1).

#&

XVYI

3. ' SRWXVYE YQE UYEHVEHS GSQ HSMW GEV¢GXIVIW UYEMWUYIV. :INE UYI S VIWYPXEHS ª YQ  
VIXERKYPs (R PMRLEW TSV R+R GSPYREW).

4VSX´XMTS HS TVIHMGEHS: UYEH(< , = , 2)

)\IQTPSW HI -/3:

#- UYEH('#', '&', 5).

#####&&&&&  
#####&&&&&  
#####&&&&&  
#####&&&&&  
#####&&&&&  
XVYI .  
#- UYEH('\*', '&', 1).  
\*&  
XVYI .  
#- UYEH('\*', '&', 0).  
XVYI .

4. +IVE SW JEXSVMEMW HI QSHS GVIWGIRXI I WIYW VIWTIGXMZSW ZEPSVIW TEVGMEMW. %W HYEW  
I\GI`¶IW HIZIQ WIV XVEXEHEW.  
4VSX`XMTS HS TVIHMGEHS: KCJEX(2)

)\IQTPSW HI -/3:

#- KCJEX(-77).

\*EX 2 IKEXMZS  
XVYI.

#- KCJEX(0).

1  
XVYI.

#- KCJEX(5).

0! ! 1  
1! ! 1  
2! ! 2  
3! ! 6  
4! ! 24  
5! ! 120  
XVYI.

47 : XIQ YQ WEPXS HI PMRLE ERIW HI GSQI`EV MQTVMQMV E WIUY«RGME.

5E. -QTMQI E WIUY«RGME HSW HMZMWSVIW IQ SVHIQ GVIWGIRXI HSW HMZMWSVIW HI YQ HEHS R»QIVS  
MRXIMVS TSWMXMZS.  
4VSX`XMTS HS TVIHMGEHS: MQTCHMZ(2)

)\IQTPSW HI -/3:

#- MQTCHMZ(0).

2YQIVS >IVS  
XVYI.

#- MQTCHMZ(-77).

2YQIVS 2IKEXMZS  
XVYI.

#- MQTCHMZ(14).

1 2 7 14

XVYI

47 : XIQ YQ WEPXS HI PMRLE ERXIW HI GSQI"EV MQTVMQMV EW HYEW I\GI"IIW.

6E. -QTPIQIRXEV E JYR"ϑS HI 1 GLEVV], SY E JYR"ϑS 91. 7YE IWTIGMJMGE"ϑS <sup>a</sup> HEHE TSV:

J(R) ! WI R"100 IRXϑS (R-10) SY

R ! 100 J(J(R+1))

6ITIXMRHS:

J(R) !

1S. GEWS: R"100 IRXϑS (R-10)

2S. GEWS: R ! 100 J(J(R+1))

4V SX' XMTS HS TVIHMGEHS: JC91(2,\*)

) \ IQTPSW HI -/3:

#- JC91(0,<).

< ! 91.

#- JC91(99,<).

< ! 91.

#- JC91(999,<).

< ! 989.

#- JC91(101,<).

< ! 91.

#- JC91(102,<).

< ! 92.

&SE WSVXI.