

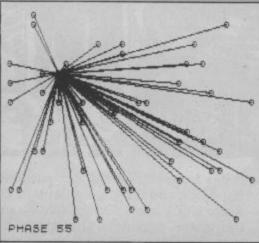
Asimov fans will no doubt have already guessed that Seldon's Game takes its theme from that author's Foundation trilogy, a series of books that plots the downfall of the Galactic Empire and the subsequent dark age of interstellar anarchy. The figure of Hari Seldon was crucial to the trilogy—the inventor of psychohistory, a sort of super-duper sociology which enabled him to mathematically predict the future course of galactic history and thus make plans to subtly influence it in the hope of shortening the ensuing dark age.

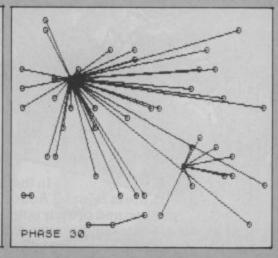
Seldon's Game is therefore rather an unusual one. You are not playing against an opponent — instead you find yourself matched against the forces of history.

The listing I've provided for the Spectrum is just the core of Seldon's Game. It enables a phase-by-phase reconstruction of the changes of power and influence in the galaxy. Each star system has five variables associated with it — power, strength, growth, centralization and ruler.

The object of the game is to make one star the ruler of all the other stars in the galaxy. Which star rules which is determined by the calculation of the influence one star has over another. The formula is a little complex, but understanding it is vital if you are going to change history! The influence of star A over star B equals the power of star A divided by the distance factor. The distance factor is the square of the distance between the two stars plus the Galactic Interaction Constant, q. All this really means is that a star's influence diminishes rapidly as distance increases. The galactic interaction constant is there to provide a smoothing effect — a small interaction constant will mean that distance has a dramatic effect and changes in ruler will be more localized. A large interaction constant means that distance is not as crucial and more wide-sweeping changes of power are possible.

The game, as it stands, has one vital element missing — star type. A star's type determines how its growth rate and centralization factor change phase by phase and it is by changing a star's type that you will be able to influence the near-inevitable course





of galactic history. In subsequent 5th Columns, star types that you can add to your Seldon's Game will be listed.

To start with, I recommend a galaxy of 25 stars with an interaction constant of 10. One word of warning before you experiment — doubling the number of stars will cause the

processing time to quadruple!

Suggestions as to how Seldon's Game should develop will be very welcome. The game is designed to grow and I hope that a lot of that growth will be stimulated by 5th Column readers. Enjoy your psychohistory!

700

```
1072 RETM
1075 REEM
10881 REEM
10882 REEM
10885 REEM
109912 LEEM
10992 REEM
11001 REEM
11102 O
                                                                                                                                                                                                        ig=0.9 LET hg=1.5
Set centralize limits
                                                                                                                                                                                                          tc=0: LET hc=.75
                                                                                                                                                                                                        Set strength limits
                                                                                                                                                                                                         Ls=1: LET hs=100
                                                                                                                                                                                                      Star Arrays
          61 REM Clear screen
62 REM Clear screen
63 CLS
64 REM Distance squared
1001 REM Distance squared
1100 LET yd=x(s1) -y(s2)
11300 LET yd=xd+xd+yd*yd
1200 LET d2=xd*xd+yd*yd
1200 LET d2=xd*xd+yd*yd
1200 REM REM REM REM PROCESS NEXT PHASE
12001 REM PROCESS NEXT PHASE
12002 REM PROCESS NEXT PHASE
12003 REM Calculate strength
12003 REM Calculate strength
12003 REM Calculate power
12005 REM Calculate power
12000 REM Calculate power
13000 REM Calculate power
                                                                                                                                                                                                       c(ns):
                                                                                                                                                                                                                                    REM centralizati
                                                                                                                                                               1110
11120
11130
11140
1150
1150
1170
                                                                                                                                                                                  DIM 9(ns) REDDIM r(ns) REDDIM x(ns) REDDIM x(ns) REDDIM y(ns) REDDIM y(ns) REDDIM y(ns) REDDIM y(ns)
                                                                                                                                                                                                                                   REM growth
REM power
REM ruler
REM strength
REM x-coord
REM y-coord
(): REM distance
                                                                                                                                                           REM Random set-up
FOR n=1 TO ns
LET L(=ig: LET hi
                                                                                                                                                                                                    n=1 TO ns
l(=ig: LET ht=hg: GO SU
                                                                                                                                                                                  LET g(n) =ra
LET li=lc: LET hi=hc: GO SU
                                                                                                                                                       LS 2020 FOR n=1 TO ns 2030 PRINT AT y(n),x(n);"0" 2035 NEXT n 2036 FOR n=1 TO ns 2040 LET m=r(n): IF m=n THEN GO 2050 PLOT 3+x(n)*8,171-y(n)*8 2060 DRAU 8*(x(m)-x(n)),8*(y(n)-y(m))
                                                    "SELDON'S GAME"
                                                                                                                                                        9 (m)
2090
2100
3000
                                                                                                                                                                        NEXT n PHASE REM ####### REM RUN game REM ####### LET SUB 2000
   1030 INPUT "What interaction ? "
1040 REM
1041 REM
1041 RET
1050 LET
1050 REM
1071 REM
                                                                                                                                                     3001
                                        [x=0
[y=0
                                                                LET hx=32
LET hy=22
                                       Set growth Limits
```