

Dateline 5000

A game to space out your evenings

This program is based partly on John Waddington's board game, '4000 AD', and partly on the popular television programme, 'Star Trek', although most of it is original. It is not so simple and corny as to be too boring, and yet at the same time, is easy to play. The object of the game is to build up as large a fleet of starships as possible, before being annihilated by the enemy. For this reason each game is different, and the length of games is enormously variable; one can try to beat one's previous record etc. The information given should adequately describe the program, but it is recommended, that, if possible the program is actually tried out.

The game is designed to run on a Texas Instruments TI-59 calculator with the PC-100C Print/Security cradle. The PC-100A or B Print cradles may be used instead.

The program is best recorded on two magnetic cards; one for the program itself, and the other to record the memories (as for printing reasons these must be entered at the start). If a different game is required each time, a random number seed between 0 and 199017 (inc) should be entered into register 9, also at the start of the game. The program should be run with the Master Library module in place (supplied with calculator), and with the partition set to 479.59 (power up partition).

The program is controlled by means of the five user-defined keys alone, using only their first functions, (A-E).

The program itself, and memory contents, are supplied as a printer listing. The game may be altered slightly by changing the names of the 12 stars. Registers 36 and 37, contain the print codes for the first star, and 58 and 59 contain those for the twelfth and last star.

Program Scenario

The game is set in the future, at a time when the United Nations have sent out a fleet of starships to colonise the worlds. Matter transportation has been perfected, and any resources found, can be immediately 'beamed' back to the home colonies, in order to build more starships. For each 'planetful', of raw materials, and each one of life-forms, providing the necessary manpower, one new starship is manufactured, during each interstellar journey, and being in possession of light-warp drive, each of these new ships, joins the main fleet before the end of the journey. The objective is therefore to colonise as many planets containing these vital resources, as possible, thereby obtaining the largest fleet possible.

However, some of these planets have already been colonised by Earth's old enemies, the Romulans and the Klingons. The UN fleet, on encountering one of these colonies, may elect to withdraw and resume the search, or to attack the settlement. If the attack is made, the battle will continue until one fleet is totally annihilated; this will be the fleet with the fewest ships (the colony will of course reply to the attack by dispatching a fleet of battle-cruisers). If both fleets are the same size, then because UN starships are slightly larger and better equipped than alien battle-cruisers, the UN fleet will win through.

The situation is further complicated by the occasional approach of the UN fleet towards the neutral zones, and statutory space of the aliens. When this happens, most of the time, the approach is uneventful; however, sometimes, the aliens, being of treacherous nature, actually cross their boundaries, and commence a spontaneous unprovoked attack on the allied fleet. In this event, the same rules of battle as previously described, apply. Although, the enemy fleets are proportioned according to the allied fleet, the greater the size of the allied fleet, the smaller the chances of its destruction (the UN fleet starts off with two ships, and all enemy fleets have *at least* two).

The greatest fleet size hitherto obtained before annihilation, was 3,130 starships (defeated by a fleet of 3,144 battle-cruisers). The least was of course, 2 starships.

Planet Identification

Planets are denoted by their Sun's name, followed by their numerical order from the Sun; ie., Earth is SOL 3.

The twelve stars used are divided into two categories, alpha-stars, and beta-stars; please see flow chart for the differences between them. The alpha stars used here, are as follows:—

ALBIREO, ACRUX, MENKAR, SOL, GEMMA & PAVO.

The beta-stars are:—

ALGOL, PROCYON, CASTOR, POLLUX, ENIF & SPICA.

Of these Procyon, Castor, Albireo, Menkar and Pavo have planets housing alien colonies at the start of the game, although these colonies readily change around during the game.

The same planet will always contain the same resources, however, throughout the game.

User Instructions

1. To start the game, first ensure the master library module is in position. Next, ensure the calculator is connected to a print cradle of the PC-100' series, and check that the partition is set to 479.59. Now, enter the program and data memories, either directly, or from each side of two magnetic cards.
Press A. (First user-defined key)
2. If destroyed in an interstellar battle with Romulan or Klingon battle-cruisers, start again. Otherwise, the printer will have written "On course for" and then a destination, eg "CASTOR 8".
If it is desired to investigate this planet, Press B. and proceed to step 3.
If it is desired to withdraw and resume search, return to stage 2 and Press C.
3. If the planet is uninhabited, parking orbit will be established, and the surface scanned by sensors. Any resources present, will automatically be utilised, and the fleet will continue on course for another planet (or alien space); go to step 2. If there is an alien colony present, then;
If it is desired to attack the colony,
Press D. and if successful, procedure will continue as if colony had not been there, ie., go to step 2.
If attack is unsuccessful, game will terminate, — if desired, Press A to start again.
If (as is the safest strategy early in the game) it is

SOFTSPOT

desired to withdraw from danger of enemy colony, Press C. and go to step 2.

4. At any point in the game, E may be pressed, to print the size of the United Nations' Fleet.

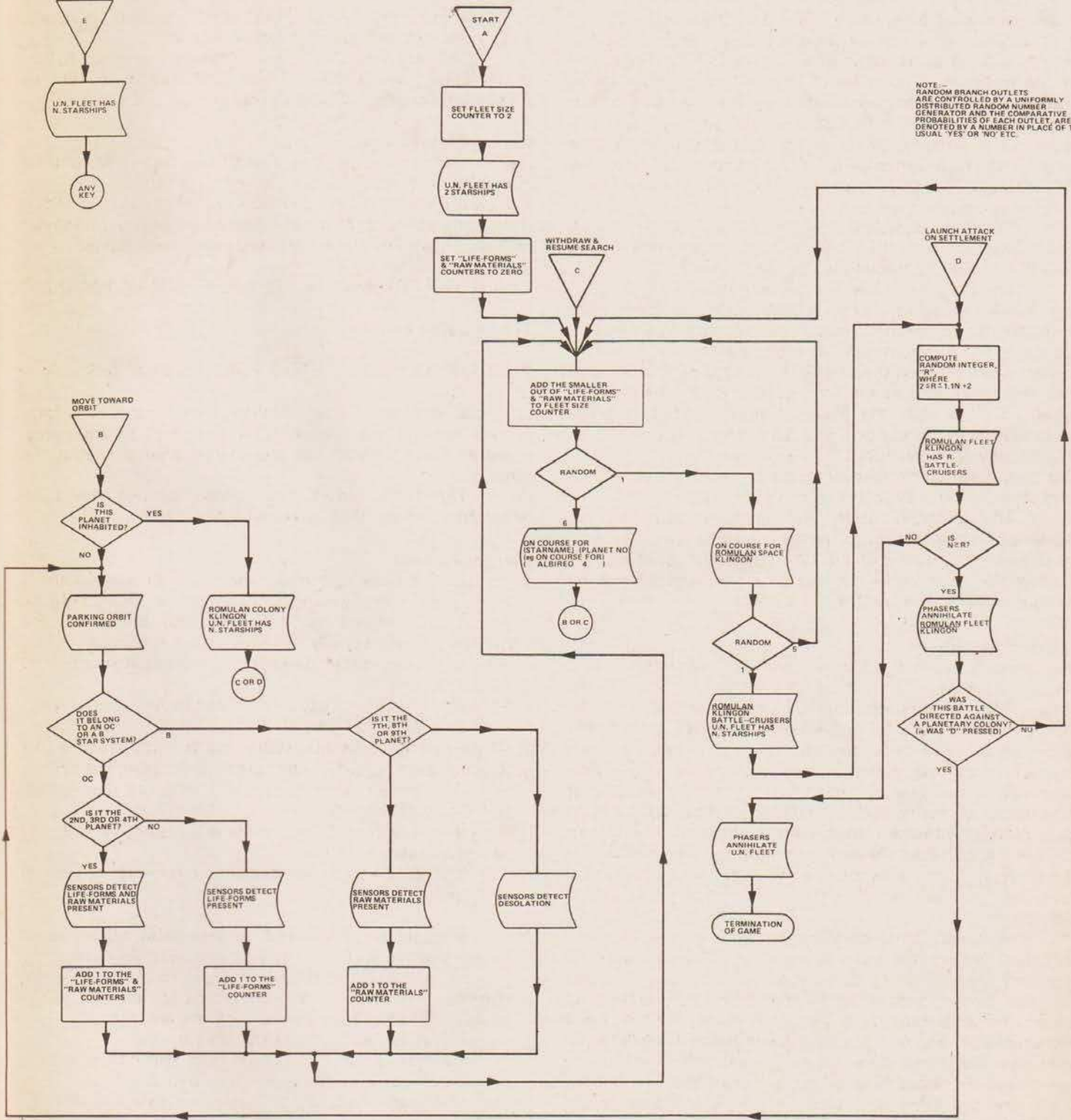
1. Simplified Flowchart for the game.

The Flow Chart should clear up any points still not understood so far. However, please note that the chart does not show all of the subroutines and branches in the actual program, but is vastly oversimplified to show just the behaviour of the program, in a reasonably comprehensible fashion.

PRESSING THIS KEY IS OPTIONAL AT ANY POINT IN THE GAME



NOTE - RANDOM BRANCH OUTLETS ARE CONTROLLED BY A UNIFORMLY DISTRIBUTED RANDOM NUMBER GENERATOR AND THE COMPARATIVE PROBABILITIES OF EACH OUTLET ARE DENOTED BY A NUMBER IN PLACE OF THE USUAL 'YES' OR 'NO' ETC.



2. Program listing for Dateline 5000.

000	76	LBL	051	68	NOP	102	06	6	154	48	RCL
001	10	E'	052	01	1	103	95	=	155	33	33
002	36	PGM	053	77	GE	104	42	STD	156	69	DP
003	15	15	054	00	00	105	02	02	157	01	01
004	71	SBR	055	69	69	106	32	X!T	158	43	RCL
005	88	DMS	056	68	NOP	107	03	3	159	34	34
006	92	RTN	057	43	RCL	108	02	2	160	69	DP
007	76	LBL	058	23	23	109	03	3	161	02	02
008	16	A'	059	48	EXC	110	01	1	162	03	3
009	69	DP	060	33	33	111	00	0	163	06	6
010	00	00	061	42	STD	112	00	0	164	03	3
011	76	LBL	062	23	23	113	69	DP	165	03	3
012	18	C'	063	43	RCL	114	00	00	166	01	1
013	42	STD	064	24	24	115	69	DP	167	03	3
014	07	07	065	48	EXC	116	01	01	168	01	1
015	73	RC*	066	34	34	117	01	1	169	05	5
016	07	07	067	42	STD	118	03	3	170	01	1
017	69	DP	068	24	24	119	42	STD	171	07	7
018	01	01	069	25	CLR	120	07	07	172	19	D'
019	69	DP	070	42	STD	121	98	ADV	173	98	ADV
020	27	27	071	36	36	122	17	B'	174	10	E'
021	76	LBL	072	43	RCL	123	05	5	175	65	X
022	17	B'	073	03	03	124	09	9	176	05	5
023	73	RC*	074	85	+	125	22	INV	177	95	=
024	07	07	075	43	RCL	126	77	GE	178	32	X!T
025	69	DP	076	04	04	127	79	X	179	01	1
026	02	02	077	95	=	128	73	RC*	180	22	INV
027	69	DP	078	55	+	129	02	02	181	77	GE
028	27	27	079	02	2	130	69	DP	182	13	C
029	73	RC*	080	95	=	131	01	01	183	69	DP
030	07	07	081	75	-	132	69	DP	184	00	00
031	76	LBL	082	53	(133	22	22	185	03	3
032	19	D'	083	24	CE	134	73	RC*	186	03	3
033	69	DP	084	75	-	135	02	02	187	42	STD
034	03	03	085	43	RCL	136	69	DP	188	07	07
035	69	DP	086	03	03	137	02	02	189	17	B'
036	05	05	087	54)	138	10	E'	190	02	2
037	25	CLR	088	50	I×I	139	65	X	191	08	8
038	92	RTN	089	95	=	140	01	1	192	16	A'
039	76	LBL	090	44	SUM	141	01	1	193	15	E
040	11	A	091	01	01	142	85	+	194	14	D
041	02	2	092	10	E'	143	02	2	195	13	C
042	42	STD	093	65	X	144	95	=	196	76	LBL
043	01	01	094	01	1	145	59	INT	197	14	D
044	15	E	095	04	4	146	42	STD	198	43	RCL
045	42	STD	096	95	=	147	36	36	199	33	33
046	03	03	097	59	INT	148	19	D'	200	69	DP
047	42	STD	098	65	X	149	98	ADV	201	01	01
048	04	04	099	02	2	150	25	CLR	202	43	RCL
049	76	LBL	100	85	+	151	91	R/S	203	34	34
050	13	C	101	03	3	152	76	LBL	204	69	DP
						153	79	X	205	02	02

SOFTSPOT

206	43	RCL	258	60	DEG	310	03	3	362	00	00
207	21	21	259	43	RCL	311	03	3	363	69	DP
208	69	DP	260	20	20	312	06	6	364	27	27
209	03	03	261	19	D*	313	19	D*	365	17	B*
210	43	RCL	262	98	ADV	314	98	ADV	366	98	ADV
211	22	22	263	98	ADV	315	92	RTN	367	03	3
212	69	DP	264	98	ADV	316	76	LBL	368	06	6
213	04	04	265	98	ADV	317	22	INV	369	01	1
214	69	DP	266	91	R/S	318	69	DP	370	07	7
215	05	05	267	76	LBL	319	32	32	371	03	3
216	10	E*	268	60	DEG	320	69	DP	372	01	1
217	65	*	269	06	6	321	10	10	373	03	3
218	43	RCL	270	44	SUM	322	64	PD*	374	06	6
219	01	01	271	07	07	323	02	02	375	69	DP
220	65	*	272	17	B*	324	04	4	376	01	01
221	01	1	273	06	6	325	05	5	377	05	5
222	93	.	274	00	0	326	52	EE	378	42	STD
223	01	1	275	32	X/T	327	08	8	379	07	07
224	85	+	276	43	RCL	328	22	INV	380	17	B*
225	02	2	277	02	02	329	52	EE	381	69	DP
226	95	=	278	22	INV	330	69	DP	382	00	00
227	59	INT	279	77	GE	331	04	04	383	04	4
228	99	PRT	280	25	CLR	332	43	RCL	384	08	8
229	32	X/T	281	92	RTN	333	33	33	385	32	X/T
230	02	2	282	76	LBL	334	69	DP	386	43	RCL
231	08	8	283	15	E	335	01	01	387	02	02
232	16	A*	284	98	ADV	336	43	RCL	388	50	I* I
233	98	ADV	285	02	2	337	34	34	389	77	GE
234	01	1	286	00	0	338	69	DP	390	04	04
235	03	3	287	16	A*	339	02	02	391	06	06
236	03	3	288	43	RCL	340	43	RCL	392	08	8
237	07	7	289	01	01	341	00	00	393	32	X/T
238	01	1	290	99	PRT	342	19	D*	394	43	RCL
239	07	7	291	69	DP	343	15	E	395	36	36
240	00	0	292	00	00	344	91	R/S	396	77	GE
241	00	0	293	03	3	345	76	LBL	397	04	04
242	00	0	294	06	6	346	12	B	398	73	73
243	00	0	295	03	3	347	73	RC*	399	03	3
244	69	DP	296	07	7	348	02	02	400	01	1
245	04	04	297	01	1	349	69	DP	401	42	STD
246	02	2	298	03	3	350	32	32	402	07	07
247	05	5	299	03	3	351	29	CP	403	17	B*
248	18	C*	300	05	5	352	22	INV	404	98	ADV
249	69	DP	301	69	DP	353	77	GE	405	13	C
250	00	00	302	02	02	354	22	INV	406	43	RCL
251	43	RCL	303	03	3	355	76	LBL	407	08	08
252	21	21	304	06	6	356	25	CLR	408	69	DP
253	69	DP	305	02	2	357	98	ADV	409	01	01
254	04	04	306	03	3	358	01	1	410	43	RCL
255	43	RCL	307	02	2	359	05	5	411	35	35
256	01	01	308	04	4	360	16	A*	412	69	DP
257	77	GE	309	03	3	361	69	DP	413	02	02

414	43	RCL	431	61	GTO	448	16	A*	465	03	3
415	36	36	432	69	DP	449	76	LBL	466	01	1
416	32	XIT	433	76	LBL	450	69	DP	467	03	3
417	03	3	434	39	CDS	451	69	DP			
418	67	EQ	435	01	1	452	00	00	468	07	7
419	39	CDS	436	03	3	453	03	3	469	19	D*
420	04	4	437	03	3	454	03	3	470	98	ADV
421	67	EQ	438	01	1	455	03	3	471	61	GTO
422	39	CDS	439	01	1	456	05	5	472	13	C
423	05	5	440	06	6	457	69	DP	473	01	1
424	67	EQ	441	19	D*	458	02	02	474	00	0
425	39	CDS	442	69	DP	459	01	1	475	16	A*
426	68	NOP	443	23	23	460	07	7	476	69	DP
427	69	DP	444	69	DP	461	03	3			
428	05	05	445	24	24	462	06	6	477	24	24
429	69	DP	446	01	1	463	01	1	478	61	GTO
430	23	23	447	00	0	464	07	7	479	69	DP

DATA MEMORIES, ALSO	2431220032.	16	-1336373235.	41	
TO BE ENTERED AT THE	3514243700.	17	33.	42	
START OF THE GAME.	1532312124.	18	3227274144.	43	
	3530171600.	19	0.	44	
	4140314000.	20	17312421.	45	
	2127171737.	21	0.	46	
	23133600.	22	3633241513.	47	
	353230.	23	1327.	48	
	4127133100.	24	-1424351732.	49	
1532273231.	00	3323133617.	25	0.	50
0.	01	3536001331.	26	1315354144.	51
0.	02	3124232427.	27	30.	52
0.	03	1413373727.	28	-1731261335.	53
0.	04	1720153541.	29	0.	54
3235360016.	05	2436173536.	30	363227.	55
1737171537.	06	1617363227.	31	0.	56
0.	07	1337243231.	32	2217303013.	57
2724211720.	08	262724.	33	0.	58
193342.7196	09	3122323100.	34	-33134232.	59
351343.	10	2132353036.	35		
30133717.	11	0.	36		
3524132736.	12	1327223227.	37		
1532413536.	13	3335.	38		
1700213235.	14	-3215453231.	39	PARTITION - 479.59	
33133526.	15	15.	40	MODULE - MASTER 1	

SOFTSPOT

3. Sample run of the program.
Letters indicate key depressed, lines show
stages of execution.

(A) _____
U. N. FLEET HAS
2.
STARSHIPS

ON COURSE FOR
GEMMA 8

(B) _____
PARKING ORBIT
CONFIRMED

SENSORS DETECT
LIFE-FORMS
PRESENT

ON COURSE FOR
ROMULAN SPACE

ON COURSE FOR
POLLUX 5

(B) _____
PARKING ORBIT
CONFIRMED

SENSORS DETECT
DESOLATION

ON COURSE FOR
ALGOL 7

(B) _____
PARKING ORBIT
CONFIRMED

SENSORS DETECT
RAW MATERIALS
PRESENT

ON COURSE FOR
MENKAR 1

(C) _____
ON COURSE FOR
ROMULAN SPACE

ON COURSE FOR
PAYD 2

(C) _____
ON COURSE FOR
ROMULAN SPACE

ON COURSE FOR
KLINGON SPACE

KLINGON
BATTLE-CRUISERS

U. N. FLEET HAS
7.
STARSHIPS

KLINGON FLEET HAS
4.
BATTLE-CRUISERS

PHASERS ANNIHILATE
KLINGON FLEET

ON COURSE FOR
ACRUX 7

(C) _____
ON COURSE FOR
ALBIRED 7

(C) _____
ON COURSE FOR
ENIF 4

(B) _____
PARKING ORBIT
CONFIRMED

SENSORS DETECT
DESOLATION

ON COURSE FOR
MENKAR 4

(B) _____
KLINGON COLONY

U. N. FLEET HAS
11.
STARSHIPS

(D) _____
KLINGON FLEET HAS
5.
BATTLE-CRUISERS

PHASERS ANNIHILATE
KLINGON FLEET

PARKING ORBIT
CONFIRMED

SENSORS DETECT
LIFE-FORMS AND
RAW MATERIALS
PRESENT

ON COURSE FOR
ALGOL 8

(C) _____
ON COURSE FOR
KLINGON SPACE

ON COURSE FOR
ALBIRED 9

(B) _____
ROMULAN COLONY

U. N. FLEET HAS
17.
STARSHIPS

(D) _____
ROMULAN FLEET HAS
18.
BATTLE-CRUISERS

PHASERS ANNIHILATE
U. N. FLEET