

HH	HH	EEEEEEEEE	RRRRRRRRR	CCCCCCCC	00000000	11	SSSSSSSS
HH	HH	EEEEEEEEE	RRRRRRRRRR	CCCCCCCCCC	000000000	111	SSSSSSSSSS
HH	HH	EE	RR	RR CC	00 00	1111	SS SS
HH	HH	EE	RR	RR CC	00 00	11	SS
HH	HH	EE	RR	RR CC	00 00	11	SSS
HHHHHHHHHHHHH	EEEEE	RRRRRRRRRR	CC	00 00	11	SSSSSSSS	
HHHHHHHHHHHHH	EEEEE	RRRRRRRRRR	CC	00 00	11	SSSSSSSS	
HH	HH	EE	RR	RR CC	00 00	11	SSS
HH	HH	EE	RR	RR CC	00 00	11	SS
HH	HH	EE	RR	RR CC	00 00	11	SS
HH	HH	EEEEE	RR	RR CC	00 00	11	SS SS
HH	HH	EEEEEEE	RR	RR CCCCCCCC	000000000	111111111	SSSSSSSSSS
HH	HH	EEEEEEE	RR	RR CCCCCCCC	000000000	111111111	SSSSSSSS

JJ	000000000000	BBBBBBBBBB	44	333333333333	999999999999
JJ	000000000000	BBBBBBBBBBB	444	333333333333	999999999999
JJ	OO OO	BB BB	4444	33 33	99 99
JJ	OO OO	BB BB	44 44	33 33	99 99
JJ	OO OO	BB BBBB BBBB	44 44	3333	999999999999
JJ	OO OO	BBBBBBBBBB	44 44	3333	999999999999
JJ	OO OO	BBBBBBBBBB	44 44	3333	999999999999
JJ	OO OO	BB BB	444444444444	33	99
JJ	JJ OO OO	BB BB	444444444444	33	99
JJ	JJ OO OO	BB BB	44	33 33	99 99
JJJJJJJJJJJJJ	000000000000	BBBBBBBBBBB	44	333333333333	999999999999
JJJJJJJJJJJ	000000000000	BBBBBBBBBBB	44	3333333333	9999999999

PPPPPPPPPPP	RRRRRRRRR	00000000	00000000	EEEEEEEEE
PPPPPPPPPPP	RRRRRRRRRR	000000000	000000000	EEEEEEEEE
PP	PP RR	RR 00	00 00	00 EE
PP	PP RR	RR 00	00 00	00 EE
PP	PP RR	RR 00	00 00	00 EE
PPPPPPPPPPP	RRRRRRRRRRR	00	00 00	00 EEEEEE
PPPPPPPPPPP	RRRRRRRRRRR	00	00 00	00 EEEEEE
PPPPPPPPPPP	RRRRRRRRRRR	00	00 00	00 EEEEEE
PP	RR RR	RR 00	00 00	00 EE
PP	RR RR	RR 00	00 00	00 EE
PP	RR RR	RR 00	00 00	00 EE
PP	RR RR	RR 000000000	0000000000	EEEEEEEEE
PP	RR RR	RR 00000000	000000000	EEEEEEEEE

PPPPPPPPPPP	RRRRRRRRR	TTTTTTTTTT	11	44	00000000	3333333333
PPPPPPPPPPP	RRRRRRRRRRR	TTTTTTTTTTT	111	444	000000000	333333333333
PP	PP RR	RR TT	1111	4444	00 00	33 33
PP	PP RR	RR TT	11	44 44	00 00	33
PP	PP RR	RR TT	11	44 44	00 00	33
PPPPPPPPPPP	RRRRRRRRRRR	TT	11	44 44	00 00	3333
PPPPPPPPPPP	RRRRRRRRRR	TT	11	44 44	00 00	3333
PP	RR RR	RR TT	11	444444444444	00 00	33
PP	RR RR	RR TT	11	444444444444	00 00	33
PP	RR RR	RR TT	11	44	00 00	33 33
PP	RR RR	RR TT	111111111	44	000000000	333333333333
PP	RR RR	RR TT	111111111	44	000000000	333333333333

JJ	EEEEEEEEE	SSSSSSSS	MM	MM	SSSSSSSS	GGGGGGGGG
JJ	EEEEEEEEE	SSSSSSSSSS	MMM	MM	SSSSSSSSSS	GGGGGGGGGGG
JJ	EE	SS	SS	MMMM	MM	GG
JJ	EE	SS	MM	MM	SS	GG
JJ	EE	SSS	MM	MM	SSS	GG
JJ	EEEEE	SSSSSSSS	MM	MM	SSSSSSSS	GG
JJ	EEEEE	SSSSSSSS	MM	MM	SSSSSSSS	GG
JJ	EE	SSS	MM	MM	SSS	GG
JJ	EE	SS	MM	MM	SS	GG
JJ	JJ	EE	SS	SS	MM	MM
JJJJJJJJJJJJJ	EEEEEEEEE	SSSSSSSSSS	MM	MM	SSSSSSSSSS	GGGGGGGGGG
JJJJJJJJJJJ	EEEEEEEEE	SSSSSSSSSS	MM	MM	SSSSSSSSSS	GGGGGGGGGG

AAAAAA	00000000		
AAAAAAA	0000000000		
AA	AA	00	00
AA	AA	00	00
AA	AA	00	00
AAAAAA	00	00	
AAAAAA	00	00	
AA	AA	00	00
AA	AA	00	00
AA	AA	00	00
AA	AA	00	00
AA	AA	0000000000	
AA	AA	0000000000	

IAT6140 JOB ORIGIN FROM GROUP=ANYLOCAL, DSP=IR , DEVICE=INTRDR , 000
00:20:19 IAT4401 LOCATE FOR STEP=SIM DD=STEPLIB DSN=SYS2.SIMULA.LINKLIB
00:20:19 IAT4402 UNIT=3380 ,VOL(S) N/A: UNIT NOT JES3
00:20:19 IAT4401 LOCATE FOR STEP=GO DD=SYSLIB DSN=SYS2.SIMULA.LINKLIB
00:20:19 IAT4402 UNIT=3380 ,VOL(S) N/A: UNIT NOT JES3
00:20:19 IAT4401 LOCATE FOR STEP=GO DD=SYSLIB DSN=SYS2.SIMULA.LINKLIB
00:20:19 IAT4402 UNIT=3380 ,VOL(S) N/A: UNIT NOT JES3
00:20:19 IAT2000 JOB 0439 HERC01S SELECTED TK4A GRP=JS3BATCH
00:20:19 IEF403I HERC01S - STARTED - TIME=00.20.19
00:20:19 IEFACTRT - Stepname Procstep Program Retcode
00:20:19 HERC01S PRIMES SIM SIMULA RC= 0000
00:20:19 HERC01S PRIMES GO LOADER RC= 0000
00:20:19 IEF404I HERC01S - ENDED - TIME=00.20.19

JJ	EEEEEEEEE	SSSSSSSS	JJ	CCCCCCCC	LL
JJ	EEEEEEEEE	SSSSSSSSSS	JJ	CCCCCCCCCCC	LL
JJ	EE	SS SS	JJ	CC CC	LL
JJ	EE	SS	JJ	CC	LL
JJ	EE	SSS	JJ	CC	LL
JJ	EEEEE	SSSSSS	JJ	CC	LL
JJ	EEEEE	SSSSSS	JJ	CC	LL
JJ	EE	SSS	JJ	CC	LL
JJ	EE	SS JJ	JJ	CC CC	LL
JJ	JJ	EE SS JJ	JJ	CC CC	LL
JJJJJJJJJJJJJ	EEEEEEEEE	SSSSSSSSSS	JJJJJJJJJJJJJ	CCCCCCCCCCC	LLLLLLLLLLL
JJJJJJJJJJJ	EEEEEEEEE	SSSSSSSS	JJJJJJJJJJJ	CCCCCCCCC	LLLLLLLLLLL

AAAAAA	00000000
AAAAAAA	0000000000
AA AA	00 00
AA AA	00 00
AAAAAAA	00 00
AAAAAAA	00 00
AA AA	0000000000
AA AA	000000000

```

//HERC01S JOB (SIMULA),                                     *
//          'SIMULA ',                                     *
//          CLASS=A,                                      *
//          MSGCLASS=A,                                     *
//          REGION=9000K,TIME=1440,                         *
//          MSGLEVEL=(1,1),                                 *
//          USER=HERC01,PASSWORD=                         GENERATED BY GDL
//*****                                                 *****
//*
// * Name: SYS2.JCLLIB(PRIMSIMU)
//*
// * Desc: Sieve of Eratosthenes programmed in SIMULA.
// *       All prime numbers up to the value entered via
// *       //GO.SYSIN DD are computed.
//*
//*****                                                 *****
//PRIMES EXEC SIMCG
//SIM.SYSIN DD *
/*
//GO.SYSIN DD *
/*
//GO.SYSOUT DD SYSOUT=*
//GO.PRIMOUT DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=161,BLKSIZE=16100)
1   //HERC01S JOB (SIMULA),                                     *
//          'SIMULA ',                                     *
//          CLASS=A,                                      *
//          MSGCLASS=A,                                     *
//          REGION=9000K,TIME=1440,                         *
//          MSGLEVEL=(1,1),                                 *
//          USER=HERC01,PASSWORD=                         GENERATED BY GDL
*****                                                 *****
*** 
*** Name: SYS2.JCLLIB(PRIMSIMU)
*** 
*** Desc: Sieve of Eratosthenes programmed in SIMULA.
*** All prime numbers up to the value entered via
*** //GO.SYSIN DD are computed.
*** 
*****                                                 *****
2   //PRIMES EXEC SIMCG
3   XXSIMCG    PROC EXLIB='SYS2.SIMULA.LINKLIB',GOPARM=,SOUT='*' 
*****                                                 *****
*** 
*** Name: SYS2.PROCLIB(SIMCG)
*** 
*** Desc: SIMULA compile and go
*** 
*****                                                 *****
4   XXSIM    EXEC PGM=SIMULA
5   XXSTEPLIB DD DSN=SYS2.SIMULA.LINKLIB,DISP=SHR
6   XXSYSPRINT DD SYSOUT=&SOUT
7   XXSYSUT1  DD UNIT=SYSDA,SPACE=(2000,(20,20))
8   XXSYSUT2  DD UNIT=(SYSDA,SEP=SYSUT1),SPACE=(2000,(20,20))
9   XXSYSUT3  DD UNIT=(SYSDA,SEP=(SYSUT1,SYSUT2)),SPACE=(2000,(20,10))
10  XXSYSUT4  DD UNIT=(SYSDA,SEP=(SYSUT1,SYSUT2)),SPACE=(1032,256),
XX      DCB=DSORG=DA
11  XXSYSGO   DD DSN=&&LOADSET,DISP=(MOD,PASS),UNIT=(SYSDA,SEP=SYSUT1),
XX      SPACE=(1600,(30,30)),DCB=BLKSIZE=1600
12  //SIM.SYSIN DD *,DCB=BLKSIZE=80
13  XXGO      EXEC PGM=LOADER,PARM='MAP,PRINT,LET,EP=ZYQENT/&GOPARM',
XX      COND=(4,LT,SIM)
14  XXSYSLIN  DD DSN=&&LOADSET,DISP=(OLD,PASS)
15  XXSYSLIB  DD DSN=&EXLIB,DISP=SHR

```

```
16 XX      DD DSN=SYS2.SIMULA.LINKLIB,DISP=SHR  
17 XXSYSLOUT DD SYSOUT=&SOUT  
18 XXSYSOUT  DD SYSOUT=&SOUT  
19 //GO.SYSIN  DD *,DCB=BLKSIZE=80  
20 //GO.SYSOUT DD SYSOUT=*  
21 //GO.PRIMOUT DD SYSOUT=*,DCB=(RECFM=FBA,LRECL=161,BLKSIZE=16100)
```

SSSSSSSSSS	YY	YY	SSSSSSSSSS	MM	MM	SSSSSSSSSS	GGGGGGGGGG		
SSSSSSSSSS	YY	YY	SSSSSSSSSS	MMM	MM	SSSSSSSSSS	GGGGGGGGGG		
SS	SS	YY	YY	SS	MMMM	MM	SS	GG	GG
SS		YY	YY	SS	MM	MM	SS	GG	
SSS		YYYY		SSS	MM	MM	SSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	
SSSSSSSS		YY		SSSSSSSS	MM	MM	SSSSSSSS	GG	

AAAAAA	AAAAAA	00000000
AAAAAA	AAAAAA	0000000000
AA	AA	00 00
AA	AA	00 00
AA	AA	00 00
AAAAAA	AAAAAA	00 00
AAAAAA	AAAAAA	00 00
AA	AA	0000000000
AA	AA	0000000000

STMT NO.	MESSAGE
-	
6	IEF653I SUBSTITUTION JCL - SYSOUT=*
13	IEF653I SUBSTITUTION JCL - PGM=LOADER, PARM='MAP, PRINT, LET, EP=ZYQENT/ ',
15	IEF653I SUBSTITUTION JCL - DSN=SYS2.SIMULA.LINKLIB, DISP=SHR
17	IEF653I SUBSTITUTION JCL - SYSOUT=*
18	IEF653I SUBSTITUTION JCL - SYSOUT=*
	IEF236I ALLOC. FOR HERC01S SIM PRIMES
	IEF237I 280 ALLOCATED TO STEPLIB
	IEF237I JES3 ALLOCATED TO SYSPRINT
	IEF237I 140 ALLOCATED TO SYSUT1
	IEF237I 190 ALLOCATED TO SYSUT2
	IEF237I 170 ALLOCATED TO SYSUT3
	IEF237I 180 ALLOCATED TO SYSUT4
	IEF237I 190 ALLOCATED TO SYSGO
	IEF237I JES3 ALLOCATED TO SYSIN
	IEF142I HERC01S SIM PRIMES - STEP WAS EXECUTED - COND CODE 0000
	IEF285I SYS2.SIMULA.LINKLIB KEPT *-----0
	IEF285I VOL SER NOS= PUB002.
	IEF285I SIM.PRIMES.SYSPRINT SYSOUT
	IEF285I SYS16261.T002019.RA000.HERC01S.R0000002 DELETED *-----0
	IEF285I VOL SER NOS= WORK00.
	IEF285I SYS16261.T002019.RA000.HERC01S.R0000003 DELETED *-----0
	IEF285I VOL SER NOS= WORK03.
	IEF285I SYS16261.T002019.RA000.HERC01S.R0000004 DELETED *-----1
	IEF285I VOL SER NOS= WORK01.
	IEF285I SYS16261.T002019.RA000.HERC01S.R0000005 DELETED *-----0
	IEF285I VOL SER NOS= WORK02.
	IEF285I SYS16261.T002019.RA000.HERC01S.LOADSET PASSED *-----3
	IEF285I VOL SER NOS= WORK03.
	IEF285I JESI0001 SYSIN
	IEF373I STEP /SIM / START 16261.0020
	IEF374I STEP /SIM / STOP 16261.0020 CPU 0MIN 00.02SEC SRB 0MIN 00.01SEC VIRT 608K SYS 168K
*	*****
*	1. Jobstep of job: HERC01S Stepname: SIM Program name: SIMULA Executed on 17.09.16 from 00.20.19 to 00.20.19 *
*	elapsed time 00:00:00,07 CPU-Identifier: TK4- Page-in: 0 *
*	CPU time 00:00:00,03 Virtual Storage used: 608K Page-out: 0 *
*	corr. CPU: 00:00:00,03 CPU time has been corrected by 1 / 1,0 multiplier *
*	I/O Operation *
*	Number of records read via DD * or DD DATA: 98 *
*	280.....0 DMY.....0 140.....0 190.....0 170.....1 180.....0 190.....3 DMY.....0 *
*	Charge for step (w/o SYSOUT): 0,05 *
*	*****
	IEF236I ALLOC. FOR HERC01S GO PRIMES
	IEF237I 190 ALLOCATED TO SYSLIN
	IEF237I 280 ALLOCATED TO SYSLIB
	IEF237I 280 ALLOCATED TO
	IEF237I JES3 ALLOCATED TO SYSLOUT
	IEF237I JES3 ALLOCATED TO SYSOUT
	IEF237I JES3 ALLOCATED TO SYSIN
	IEF237I JES3 ALLOCATED TO SYSOUT
	IEF237I JES3 ALLOCATED TO PRIMOUT
	IEF142I HERC01S GO PRIMES - STEP WAS EXECUTED - COND CODE 0000
	IEF285I SYS16261.T002019.RA000.HERC01S.LOADSET PASSED *-----4
	IEF285I VOL SER NOS= WORK03.
	IEF285I SYS2.SIMULA.LINKLIB KEPT *-----319
	IEF285I VOL SER NOS= PUB002.
	IEF285I SYS2.SIMULA.LINKLIB KEPT *-----0
	IEF285I VOL SER NOS= PUB002.
	IEF285I GO.PRIMES.SYSLOUT SYSOUT
	IEF285I GO.PRIMES.SYSOUT SYSOUT

IEF285I JESI0002
IEF285I SYS16261.T002019.RA000.HERC01S.R0000008
IEF285I GO.PRIMES.PRIMOUT
IEF373I STEP /GO / START 16261.0020
IEF374I STEP /GO / STOP 16261.0020 CPU 0MIN 00.08SEC SRB 0MIN 00.01SEC VIRT 9000K SYS 208K

* 2. Jobstep of job: HERC01S Stepname: GO Program name: LOADER Executed on 17.09.16 from 00.20.19 to 00.20.19 *
* elapsed time 00:00:00,12 CPU-Identifier: TK4- Page-in: 0 *
* CPU time 00:00:00,09 Virtual Storage used: 9000K Page-out: 0 *
* corr. CPU: 00:00:00,09 CPU time has been corrected by 1 / 1,0 multiplier *
*
* I/O Operation *
* Number of records read via DD * or DD DATA: 1 *
* 190.....4 280.....319 280.....0 DMY.....0 DMY.....0 DMY.....0 DMY.....0 DMY.....0 *
*
* Charge for step (w/o SYSOUT): 0,15 *

IEF237I 190 ALLOCATED TO SYS00001
IEF285I SYS16261.T002019.RA000.HERC01S.R0000001 KEPT *-----0
IEF285I VOL SER NOS= WORK03.
IEF285I SYS16261.T002019.RA000.HERC01S.LOADSET DELETED
IEF285I VOL SER NOS= WORK03.
IEF375I JOB /HERC01S / START 16261.0020
IEF376I JOB /HERC01S / STOP 16261.0020 CPU 0MIN 00.10SEC SRB 0MIN 00.02SEC

SSSSSSSSSS	IIIIIIIIII	MM	MM
SSSSSSSSSSSS	IIIIIIIIII	MMM	MMM
SS SS	II	MMMM	MMMM
SS	II	MM MM	MM MM
SSS	II	MM	MMMM MM
SSSSSSSSSS	II	MM	MM MM
SSSSSSSSSS	II	MM	MM
SSS	II	MM	MM
SS	II	MM	MM
SS SS	II	MM	MM
SSSSSSSSSSSS	IIIIIIIIII	MM	MM
SSSSSSSSSS	IIIIIIIIII	MM	MM

PPPPPPPPPP	RRRRRRRRRR	IIIIIIIII	MM	MM	EEEEEEEEE	SSSSSSSSS			
PPPPPPPPPP	RRRRRRRRRR	IIIIIIIII	MMM	MMM	EEEEEEEEE	SSSSSSSSSS			
PP	PP	RR	RR	II	MMMM	MMMM	EE	SS	SS
PP	PP	RR	RR	II	MM	MM	MM	EE	SS
PP	PP	RR	RR	II	MM	MMMM	MM	EE	SSS
PPPPPPPPPP	RRRRRRRRRR	II	MM	MM	MM	EEEEEE	SSSSSSSS		
PPPPPPPPPP	RRRRRRRRRR	II	MM	MM	EEEEE	SSSSSSSS			
PP	RR	RR	II	MM	MM	EE	SSS		
PP	RR	RR	II	MM	MM	EE	SS		
PP	RR	RR	II	MM	MM	EE	SS		
PP	RR	RR	IIIIIIIII	MM	MM	EEEEEEEEE	SSSSSSSSSS		
PP	RR	RR	IIIIIIIII	MM	MM	EEEEEEEEE	SSSSSSSSSS		

SSSSSSSSSS	YY	YY	SSSSSSSSSS	PPPPPPPPPPP	RRRRRRRRRR	IIIIIIIII	NN	NN	TTTTTTTTTT
SSSSSSSSSSSS	YY	YY	SSSSSSSSSSSS	PPPPPPPPPPPP	RRRRRRRRRRRR	IIIIIIIII	NNN	NN	TTTTTTTTTT
SS SS	YY	YY	SS SS	PP	RR	RR	NNNN	NN	TT
SS	YY YY		SS	PP	RR	RR	NN NN	NN	TT
SSS	YYYY		SSS	PP	RR	RR	NN NN	NN	TT
SSSSSSSS	YY	SSSSSSSS	PPPPPPPPPPP	RRRRRRRRRR	II	NN NN	NN	TT	
SSSSSSSS	YY	SSSSSSSS	PPPPPPPPPPP	RRRRRRRRRR	II	NN NN	NN	TT	
SSS	YY	SSS	PP	RR	RR	NN NN	NN	TT	
SS	YY	SS	PP	RR	RR	NN NNNN	NN	TT	
SS SS	YY	SS	PP	RR	RR	NN NNNN	NN	TT	
SSSSSSSSSSSS	YY	SSSSSSSSSSSS	PP	RR	RR	IIIIIIIII	NN	NN	TT
SSSSSSSSSS	YY	SSSSSSSSSS	PP	RR	RR	IIIIIIIII	NN	N	TT

AAAAAAA AAAAAAA AA AA		0000000 000000000 00 00
AA AA AA AA AAAAAAA AAAAAAA AA AA		00 00 00 00 00 00 00 00
AA AA AA AA AA AA AA AA AA AA		00 00 00 00 00 00 00 00 000000000 00000000

COMPILER OPTIONS

NOLIST
NODECK
LOAD
WARN
SUBCHK
NOXREF
SOURCE
NOTERM
NOSYMBDUMP

LINECNT = 60
MAXERROR= 50
INDENT = 0
RESWD = 0
EXTERN = 0

```
00001 comment
00002 ***
00003 *** Eratosthenes' Sieve, direct iteration
00004 ***;
00005 begin
00006 comment
00007 ***
00008 *** declarations
00009 ***;
00010     ref(outfile) primout;
00011     boolean array isprime(1:8400000);
00012     integer i,j,k,l,limit;
00013 comment
00014 ***
00015 *** initialization
00016 ***;
00017     limit := initint;
00018     for i := 3 step 2 until limit do
00019         isprime(i) := true;
00020     i := 3;
00021     k := 9;
00022 comment
00023 ***
00024 *** sieve
00025 ***;
00026     for i := i while k < limit do
00027         begin
00028             for i := i while k < limit and not isprime(i) do
00029                 begin
00030                     i := i+2;
00031                     k := i*i;
00032                 end;
00033                 if k < limit then
00034                     begin
00035                         for k := k while k < limit do
00036                             begin
00037                                 isprime(k) := false;
00038                                 k := k+i+i;
00039                             end;
00040                         i := i+2;
00041                         k := i*i;
00042                     end;
00043                 end;
00044 comment
00045 ***
00046 *** print initialization
00047 ***;
00048     j := 1;
00049     k := 1;
00050     l := 0;
00051     primout :- new outfile("PRIMOUT");
00052     primout.open(blanks(161));
00053     primout.outtext("1");
00054     primout.outint(2, 8);
00055 comment
00056 ***
00057 *** print 20 primes per output line
00058 ***;
```

```
00059      for i := 3 step 2 until limit-1 do                                B6
00060      begin
00061          if isprime(i) then
00062          begin
00063              j := j + 1;
00064              k := k + 1;
00065              primout.outint(i, 8);
00066              if j = 20 then
00067              begin
00068                  primout.outimage;
00069                  j := 0;
00070                  l := l + 1;
00071                  if l = 62 then
00072                  begin
00073                      primout.outtext("1");
00074                      l := 0;
00075                  end
00076                  else primout.outtext(" ");
00077              end;
00078          end;
00079      end;
00080  comment
00081  ***
00082  *** print incomplete last line
00083  ***;
00084      if j ^= 0 then primout.outimage;
00085      primout.outimage;
00086  comment
00087  ***
00088  *** print summary and close output file
00089  ***;
00090      primout.outint(k, 8); primout.outtext(" primes up to ");
00091      primout.outint(limit, 8); primout.outtext(" found");
00092      primout.outimage;
00093      primout.close; primout := none;
00094  comment
00095  ***
00096  *** done
00097  ***;
00098 end;                                              E1
```

NO DIAGNOSTICS FOR THIS COMPILATION.

GGGGGGGGGG	000000000000
GGGGGGGGGGGG	000000000000
GG GG	00 00
GG	00 00
GG	00 00
GG GGGGG	00 00
GG GGGGG	00 00
GG GG	00 00
GG GG	00 00
GGGGGGGGGGGG	000000000000
GGGGGGGGGG	000000000000

PPPPPPPPPPP	RRRRRRRRRRR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSS
PPPPPPPPPPP	RRRRRRRRRRR	IIIIIIIII	MMM MMM	EEEEEEEEE	SSSSSSSSSS
PP PP	RR RR	II	MMMM MMMM	EE	SS SS
PP PP	RR RR	II	MM MM MM MM	EE	SS
PP PP	RR RR	II	MM MMMM MM	EE	SSS
PPPPPPPPPPP	RRRRRRRRRRR	II	MM MM MM	EEEEEEE	SSSSSSSS
PPPPPPPPPPP	RRRRRRRRRRR	II	MM MM	EEEEEEE	SSSSSSSS
PP	RR RR	II	MM MM	EE	SSS
PP	RR RR	II	MM MM	EE	SS
PP	RR RR	II	MM MM	EE	SS SS
PP	RR RR	II	MM MM	EE	SS
PP	RR RR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSSSS
PP	RR RR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSSSS

SSSSSSSS	YY YY	SSSSSSSS	LL	000000000000	UU	UU	TTTTTTTTTTTT
SSSSSSSSSS	YY YY	SSSSSSSSSS	LL	000000000000	UU	UU	TTTTTTTTTTTT
SS SS	YY YY	SS	LL	00	OO	UU	UU TT
SS	YY YY	SS	LL	00	OO	UU	UU TT
SSS	YYYY	SSS	LL	00	OO	UU	UU TT
SSSSSSSS	YY	SSSSSSSS	LL	00	OO	UU	UU TT
SSSSSSSS	YY	SSSSSSSS	LL	00	OO	UU	UU TT
SSS	YY	SSS	LL	00	OO	UU	UU TT
SS	YY	SS	LL	00	OO	UU	UU TT
SS SS	YY	SS	LL	00	OO	UU	UU TT
SSSSSSSSSS	YY	SSSSSSSSSS	LLLLLLLLLL	000000000000	UUUUUUUUUUUU	UUUUUUUUUUUU	TT
SSSSSSSSSS	YY	SSSSSSSSSS	LLLLLLLLLL	000000000000	UUUUUUUUUUUU	UUUUUUUUUUUU	TT

AAAAAA	AAAAAA	00000000
AAAAAA	AAAAAA	000000000000
AA AA		00 00
AA AA		00 00
AA AA		00 00
AAAAAA	AAAAAA	00 00
AAAAAA	AAAAAA	00 00
AA AA		000000000000
AA AA		000000000000

VS LOADER

OPTIONS USED - PRINT,MAP,LET,CALL,RES,NOTERM,SIZE=307200,NAME=**GO
EP=ZYOENT

GGGGGGGGGG	000000000000
GGGGGGGGGGGG	000000000000
GG GG	00 00
GG	00 00
GG	00 00
GG GGGGG	00 00
GG GGGGG	00 00
GG GG	00 00
GG GG	00 00
GGGGGGGGGGGG	000000000000
GGGGGGGGGG	000000000000

PPPPPPPPPPP	RRRRRRRRRRR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSS
PPPPPPPPPPP	RRRRRRRRRRR	IIIIIIIII	MMM MMM	EEEEEEEEE	SSSSSSSSSS
PP PP	RR RR	II	MMMM MMMM	EE	SS SS
PP PP	RR RR	II	MM MM MM MM	EE	SS
PP PP	RR RR	II	MM MMMM MM	EE	SSS
PPPPPPPPPPP	RRRRRRRRRRR	II	MM MM MM	EEEEEEE	SSSSSSSS
PPPPPPPPPPP	RRRRRRRRRRR	II	MM MM	EEEEEEE	SSSSSSSS
PP	RR RR	II	MM MM	EE	SSS
PP	RR RR	II	MM MM	EE	SS
PP	RR RR	II	MM MM	EE	SS SS
PP	RR RR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSSSS
PP	RR RR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSSSS

SSSSSSSS	YY YY	SSSSSSSS	000000000000	UU UU	TTTTTTTTTT
SSSSSSSSSS	YY YY	SSSSSSSSSS	000000000000	UU UU	TTTTTTTTTT
SS SS	YY YY	SS SS	00 00	UU UU	TT
SS	YY YY	SS	00	UU UU	TT
SSS	YYYY	SSS	00	UU UU	TT
SSSSSSSS	YY	SSSSSSSS	00	UU UU	TT
SSSSSSSS	YY	SSSSSSSS	00	UU UU	TT
SSS	YY	SSS	00	UU UU	TT
SS	YY	SS	00	UU UU	TT
SS SS	YY	SS SS	00 00	UU UU	TT
SSSSSSSSSS	YY	SSSSSSSSSS	000000000000	UUUUUUUUUUUU	TT
SSSSSSSSSS	YY	SSSSSSSSSS	000000000000	UUUUUUUUUUUU	TT

AAAAAA	AAAAAA	00000000
AAAAAA	AAAAAA	000000000000
AA AA		00 00
AA AA		00 00
AA AA		00 00
AAAAAA	AAAAAA	00 00
AAAAAA	AAAAAA	00 00
AA AA		000000000000
AA AA		0000000000

ZYQ994 SIMULA 67 RUN TIME SYSTEM : VERSION 12.00, DATE OF RELEASE 9 AUG 1985
ZYQ994 SIMULA PROGRAM COMPILED ON 17 SEP 2016 AT 0:20:19.37, START OF EXECUTION ON 17 SEP 2016 AT 0:20:19.37
ZYQ994 PROCESSING OPTIONS : DUMP=1,HIARCHY=0,LINECNT=60,SIZE=8929280,TRACE=0,SYMBDUMP=1

ZYQ994 END OF SIMULA PROGRAM EXECUTION AT 20:19.44 EXECUTION TIME 0.00 SEC. RETURN CODE IS #00000000
ZYQ994 00000 STORECOLLAPSES, DATA STORAGE USED : 8400856 BYTES

GGGGGGGGGG	000000000000
GGGGGGGGGG	000000000000
GG GG	00 00
GG	00 00
GG	00 00
GG GGGG	00 00
GG GGGG	00 00
GG GG	00 00
GG GG	00 00
GGGGGGGGGGGG	000000000000
GGGGGGGGGG	000000000000

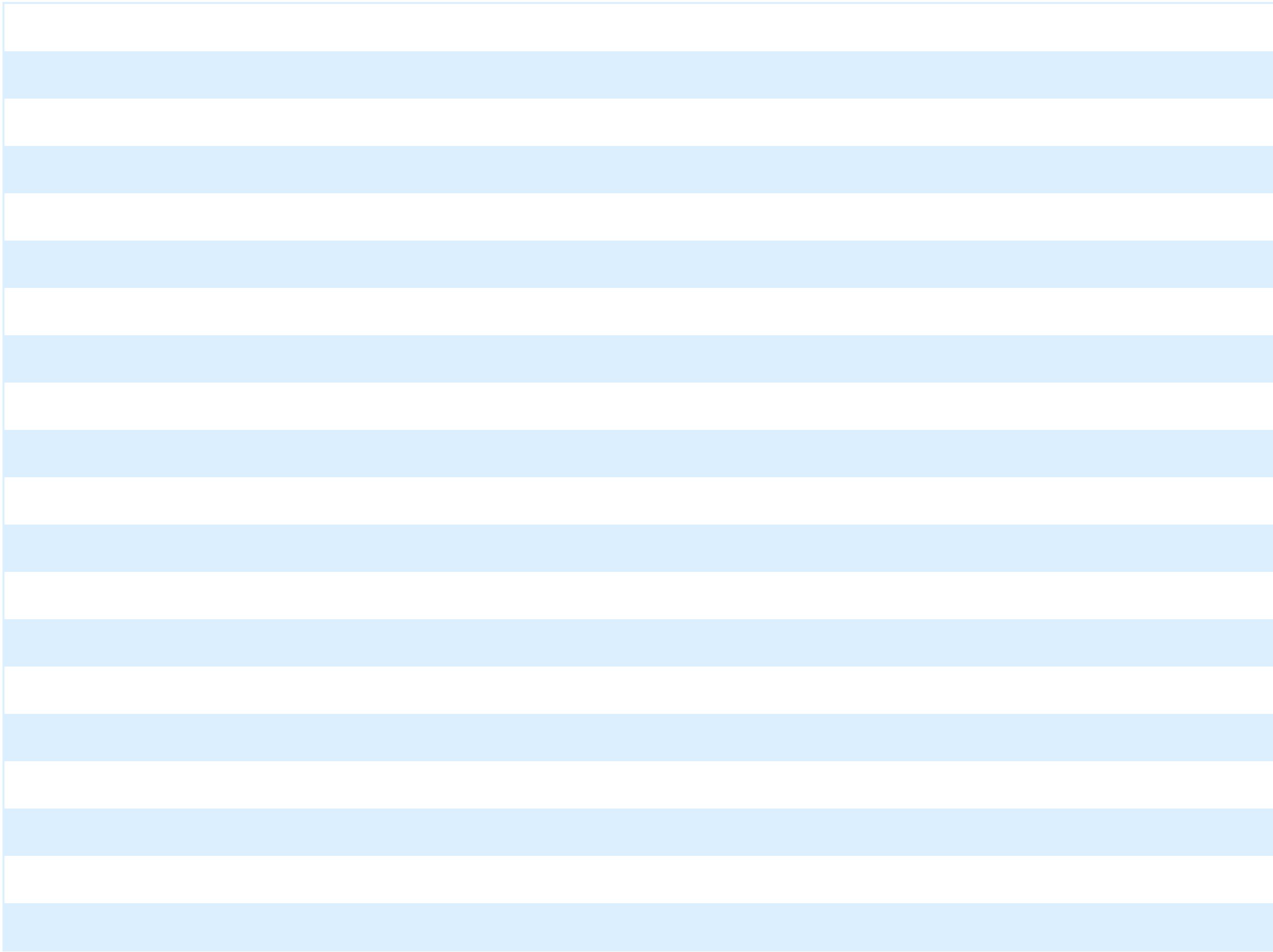
PPPPPPPPPPP	RRRRRRRRRRR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSSS
PPPPPPPPPPP	RRRRRRRRRRR	IIIIIIIII	MMM MMM	EEEEEEEEE	SSSSSSSSSSS
PP PP	RR RR	II	MMMM MMMM	EE	SS SS
PP PP	RR RR	II	MM MM MM MM	EE	SS
PP PP	RR RR	II	MM MMMM MM	EE	SSS
PPPPPPPPPPP	RRRRRRRRRRR	II	MM MM MM	EEEEEEE	SSSSSSSS
PPPPPPPPPPP	RRRRRRRRRRR	II	MM MM	EEEEEEE	SSSSSSSS
PP	RR RR	II	MM MM	EE	SSS
PP	RR RR	II	MM MM	EE	SS
PP	RR RR	II	MM MM	EE	SS SS
PP	RR RR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSSSS
PP	RR RR	IIIIIIIII	MM MM	EEEEEEEEE	SSSSSSSSSS

PPPPPPPPPPP	RRRRRRRRRR	IIIIIIIII	MM MM	000000000000	UU	UU	TTTTTTTTTT
PPPPPPPPPPP	RRRRRRRRRR	IIIIIIIII	MMM MMM	000000000000	UU	UU	TTTTTTTTTT
PP PP	RR RR	II	MMMM MMMM	OO	OO	UU	UU TT
PP PP	RR RR	II	MM MM MM MM	OO	OO	UU	UU TT
PP PP	RR RR	II	MM MMMM MM	OO	OO	UU	UU TT
PPPPPPPPPPP	RRRRRRRRRRR	II	MM MM MM	OO	OO	UU	UU TT
PPPPPPPPPPP	RRRRRRRRRR	II	MM MM	OO	OO	UU	UU TT
PP	RR RR	II	MM MM	OO	OO	UU	UU TT
PP	RR RR	II	MM MM	OO	OO	UU	UU TT
PP	RR RR	II	MM MM	OO	OO	UU	UU TT
PP	RR RR	IIIIIIIII	MM MM	000000000000	UUUUUUUUUUUU	TT	
PP	RR RR	IIIIIIIII	MM MM	000000000000	UUUUUUUUUUU	TT	

AAAAAA	AAAAAA	00000000
AAAAAA	AAAAAA	0000000000
AA AA		00 00
AA AA		00 00
AA AA		00 00
AAAAAA	AAAAAA	00 00
AAAAAA	AAAAAA	00 00
AA AA		0000000000
AA AA		0000000000

2	3	5	7	11	13	17	19	23	29	31	37	41	43	47	53	59
73	79	83	89	97	101	103	107	109	113	127	131	137	139	149	151	157
179	181	191	193	197	199	211	223	227	229	233	239	241	251	257	263	269
283	293	307	311	313	317	331	337	347	349	353	359	367	373	379	383	389
419	421	431	433	439	443	449	457	461	463	467	479	487	491	499	503	509
547	557	563	569	571	577	587	593	599	601	607	613	617	619	631	641	643
661	673	677	683	691	701	709	719	727	733	739	743	751	757	761	769	773
811	821	823	827	829	839	853	857	859	863	877	881	883	887	907	911	919
947	953	967	971	977	983	991	997	1009	1013	1019	1021	1031	1033	1039	1049	1051
1087	1091	1093	1097	1103	1109	1117	1123	1129	1151	1153	1163	1171	1181	1187	1193	1201
1229	1231	1237	1249	1259	1277	1279	1283	1289	1291	1297	1301	1303	1307	1319	1321	1327
1381	1399	1409	1423	1427	1429	1433	1439	1447	1451	1453	1459	1471	1481	1483	1487	1489
1523	1531	1543	1549	1553	1559	1567	1571	1579	1583	1597	1601	1607	1609	1613	1619	1621
1663	1667	1669	1693	1697	1699	1709	1721	1723	1733	1741	1747	1753	1759	1777	1783	1787
1823	1831	1847	1861	1867	1871	1873	1877	1879	1889	1901	1907	1913	1931	1933	1949	1951
1993	1997	1999														

303 primes up to 2000 found



HH	HH	EEEEEEEEE	RRRRRRRRR	CCCCCCCCC	00000000	11	SSSSSSSS
HH	HH	EEEEEEEEE	RRRRRRRRR	CCCCCCCCCCC	000000000	111	SSSSSSSSSS
HH	HH	EE	RR	RR CC	00 00	1111	SS SS
HH	HH	EE	RR	RR CC	00 00	11	SS
HH	HH	EE	RR	RR CC	00 00	11	SSS
HHHHHHHHHHHHH	EEEEE	RRRRRRRRR	CC	00 00	11	SSSSSSSS	
HHHHHHHHHHHHH	EEEEE	RRRRRRRRR	CC	00 00	11	SSSSSSSS	
HH	HH	EE	RR	RR CC	00 00	11	SSS
HH	HH	EE	RR	RR CC	00 00	11	SS
HH	HH	EE	RR	RR CC	00 00	11	SS
HH	HH	EEEEEEEEE	RR	RR CCCCCCCCCC	000000000	111111111	SSSSSSSSSS
HH	HH	EEEEEEEEE	RR	RR CCCCCCCC	000000000	111111111	SSSSSSSSSS

JJ	000000000000	BBBBBBBBBB	44	3333333333	9999999999
JJ	000000000000	BBBBBBBBBBB	444	333333333333	999999999999
JJ	OO OO	BB BB	4444	33 33	99 99
JJ	OO OO	BB BB	44 44	33 33	99 99
JJ	OO OO	BB BB	44 44	33 33	99 99
JJ	OO OO	BBBBBBBBBB	44 44	3333	999999999999
JJ	OO OO	BBBBBBBBBB	44 44	3333	999999999999
JJ	OO OO	BB BB	444444444444	33	99
JJ	JJ OO	BB BB	444444444444	33	99
JJ	JJ OO	BB BB	44	33 33	99 99
JJJJJJJJJJJJJ	000000000000	BBBBBBBBBB	44	333333333333	999999999999
JJJJJJJJJJJ	000000000000	BBBBBBBBBB	44	3333333333	9999999999

JJ	000000000000	BBBBBBBBBB	EEEEEEEEE	NN	NN	DDDDDDDDDD
JJ	000000000000	BBBBBBBBBBB	EEEEEEEEE	NNN	NN	DDDDDDDDDDDD
JJ	OO OO	BB BB	EE	NNNN	NN	DD DD
JJ	OO OO	BB BB	EE	NN NN	NN	DD DD
JJ	OO OO	BB BB	EE	NN NN	NN	DD DD
JJ	OO OO	BBBBBBBBBB	EEEEEE	NN NN	NN	DD DD
JJ	OO OO	BBBBBBBBBB	EEEEEE	NN NN	NN	DD DD
JJ	OO OO	BB BB	EE	NN NN NN	NN	DD DD
JJ	JJ OO	BB BB	EE	NN NNNN	NN	DD DD
JJ	JJ OO	BB BB	EE	NN NNN	NN	DD DD
JJJJJJJJJJJJJ	000000000000	BBBBBBBBBB	EEEEEEEEE	NN	NN	DDDDDDDDDDDD
JJJJJJJJJJJ	000000000000	BBBBBBBBBB	EEEEEEEEE	NN	N	DDDDDDDDDD

