

THRETRAN INTERPRETER COMPILER
NOVEMBER, 1964

debugged MARCH 21, 1965
(bit a few corrections made since then, anyway)
1007

05 19 19 16 19
00 00 00 00 00
00001
00002
00001
3940 00 02 49
00016 01 16 36
00001 00 05 08
00014 01 27 24
00001 01 05 08
00001 00 05 56
00001 00 08 39
00002 01 09 08
00001 00 01 40
00016 00 00 49
00001 00 05 57
3944 00 04 39
00001 00 05 25
0013 00 02 48
00001 00 00 39
00 22 23 16 17
00001 00 05 25
0032 00 00 49
00001 00 05 25
3943 00 02 50
00000 00 02 51
00000 02 05 15
00001 00 01 47
00000 00 02 48
00000 00 00 05
00001 00 00 39
3973 00 08 39
3955 00 05 26
0012 00 02 48
3957 00 00 39
00003 01 05 26
0015 02 05 27
00001 02 05 08
00001 00 05 56
00001 00 08 39
00003 00 00 51
0055 03 05 26
00001 00 00 39
00001 00 05 56
3980 00 08 39
0055 03 05 12
0014 04 37 26
00003 00 01 51
0016 00 00 50
3959 00 05 58
3964 00 09 39
0116 00 05 26
3962 00 02 49
0115 00 05 25
00001 00 00 39
00000 03 00 39
00000 00 04 49
00 06 16 19 00
00 05 15 04 00

READER EQU 16
PRINTER EQU 18
ORIG 0
ERRBUF ALF ERROR
OUTBUF ALF
ORIG ++23
RATOR ORIG ++30
KAND ORIG ++60
LOOP ORIG ++24
LCTR EQU *
*
INITIALIZATION ROUTINE
*
ORIG 3940
IN CARDAREA(READER)
ENT1 OUTBUF+1
MOVE OUTBUF(23)
ENT1 CARDAREA
1H IN 16,1(READER)
LDA 6F
STA 14,1(3-3)
LDA 1,1
CMPA 2F
JNE 3F
LDA 2,1(1-1)
JAZ 4F
3H INC1 16
CMP1 5F
JL 1B
ST1 C
ENTA 13
JMP ERROR
2H ALF STOP
4H ST1 Z
INC1 32
ST1 Y
ENT2 CARDAREA
ENT3 0
LDX 0,2
1H JXZ 2F
ENTA 0
NUM
JMP LSEARCH
JNE ++4
ST2 C
ENTA 12
JMP ERROR
ST2 3,1
2H ST3 15,2
LDA 1,2
CMPA WDFOR
JNE 2F
INC3 3
ST2 RAND,3
JMP 3F
2H CMPA WEND
JNE 3F
LD4 RAND,3
ST2 14,4(4-5)
DEC3 3
3H INC2 16
CMP2 Z
JLE 1B
ST2 LOOP+1
ENT1 CARDAREA
ST1 LOOP
JMP BEGIN
5H CON 3900
6H CON 49
WDFOR ALF FOR
WEND ALF END
*
*
LEXICAL SCAN
*
ORIG LCTR

3940
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3990
3991
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3997

```

/- 0001 00 18 33 0139
/ 3970 00 05 09 0140
0016 00 00 49 0141
/- 0001 00 04 42 0142
0001 01 09 08 0143
0141 00 04 40 0144
0000 00 02 51 0145 3992
0000 00 02 50 0146
0000 00 02 52 0147
/- 0001 00 05 33 0148
0001 01 02 54 0149
- 0004 00 02 53 0150
/ 0140 00 05 25 0151
/- 0001 00 05 08 0152
0025 00 05 24 0153
0154
0005 00 02 49 0154
0000 06 05 15 0155
0005 05 02 06 0156
0000 00 02 48 0157
/- 0001 00 04 47 0158
- 0005 00 02 53 0159
0001 00 00 54 0160
0000 06 05 15 0161
0160 00 01 47 0162
/- 0001 00 09 63 0163 0158
1H
/- 0001 00 04 39 0164
0001 00 00 53 0165
0001 00 02 06 0166
0052 00 01 48 0167
/- 0001 00 00 40 0168
0009 00 02 48 0169
BADCHAR
/ 3972 00 00 39 0170
2H
0001 00 02 06 0171 0164
0001 00 00 53 0172
0163 00 01 40 0173
0001 00 01 49 0174
0177 00 04 41 0175
/- 0001 00 05 24 0176
- 0181 00 00 45 0177
0005 00 02 53 0178
0001 00 00 54 0179
0000 06 05 15 0180
/- 0001 00 09 63 0181
0185 00 05 39 0182
/- 0001 00 09 63 0183
0171 00 04 39 0184
0000 00 02 55 0185
/- 0001 00 03 41 0186
/- 0001 00 05 57 0187
0191 00 07 39 0188
0011 00 02 48 0189
/ 0170 00 00 39 0190
0010 01 04 06 0191
/ 0176 00 05 08 0192
/- 0001 00 00 39 0193
0000 01 02 06 0194 0186
2H
/- 0001 00 09 56 0195 0193
3H
/- 0001 00 07 39 0196
IDENT
/- 0001 00 02 49 0197
0001 00 00 39 0198
0002 01 09 08 0199
/- 0001 00 05 56 0200
/ 0168 00 06 39 0201
0057 03 05 25 0202
0003 01 05 15 0203
0002 00 00 51 0204
8H
0056 03 05 31 0205
/- 0001 00 05 59 0206
/ 0201 00 04 39 0207
0013 00 02 48 0208
NOROOM
/ 0190 00 00 39 0209
0005 01 03 06 0210 0196
CONST
0000 00 00 05 0211
0057 03 05 33 0212
0057 03 27 29 0213
0005 00 03 06 0214
0204 00 00 39 0215
0216
*
/- 0001 00 05 03 0216 3968
LSEARCH
/ 0001 00 02 49 0217

```

```

ANEXT STZ LPREN(2-2)
NEXT LD1 C
NEXT2 INC1 16
NEXT1 J2NZ BAD
LDA 1,1(1-1)
JANZ *-3
BEGIN ENT3 0
ENT2 0
ENT4 0
STZ S
NEWCARD ENT6 1,1
ENT5 =4
ST1 C
LDA LDELIM
STA RATOR
*
LEXSCAN ENT1 5
LDX 0,6
SLAX 5,5
ENTA 0
JXNZ 1F
ENT5 =5
INC6 1
LDX 0,6
JXZ *-2
CMPX =40(1-1)=(1-1)
JL 2F
INC5 1
SLAX 1
DECA 52
JAN SSCAN
ENTA 9
JMP ERROR
SLAX 1
INC5 1
JAZ 1B
DEC1 1
J1NZ **2
STA TEMP
J5N **4
ENT5 =5
INC6 1
LDX 0,6
CMPX =0=(1-1)
JE **3
CMPX =40(1-1)=(1-1)
JL 2B
ENTX 0
J1NN 2F
CMP1 =-5=
JGE **3
ENTA 11
JMP ERROR
SLC 10,1
LDA TEMP
JMP 3F
SLAX 0,1
CMPA =30(1-1)=(1-1)
JGE CONST
IDENT ENT1 ROOT
JMP SEARCH
LDA 2,1(1-1)
CMPA =1=
JG SSCAN
ST1 RAND+2,3
LDX 3,1
8H INC3 2
STX RAND+1,3
CMP3 =58=
JL SSCAN
NOROOM ENTA 13
JMP ERROR
CONST SRAX 5,1
NUM
STZ RAND+2,3
ST5 RAND+2,3(3-3)
SRAX 5
JMP 8B
*
LSEARCH MUL PHI
ENT1 LROOT

```

SPECIAL CHARACTER SCANNED ←

AT THIS POINT RI5 ≠ 0

```

/- 0001 00 02 32 0218 0198 SEARCH STJ 9F
/ 0192 00 05 26 0219 ST2 TEMP
0000 01 02 50 0220 ENT2 0,1
0000 01 05 56 0221 CMPA 0,1
/- 0001 00 04 39 0222 JL 2F
/ 0001 00 06 39 0223 JG 3F
0001 01 05 63 0224 CMPX 1,1
/- 0001 00 05 39 0225 JE 7F
/ 0223 00 06 39 0226 JG 3F
0002 01 19 09 0227 LD1 2,1(2-3)
/ 0220 00 02 41 0228 J1P 1B
3961 00 05 09 0229 LD1 Y
0002 02 19 25 0230 ST1 2,2(2-3)
/- 0001 00 00 39 0231 JMP 4F
0002 01 37 09 0232 LD1 2,1(4-5)
/ 0220 00 02 41 0233 J1P 1B
0229 00 05 09 0234 LD1 Y
0002 02 37 25 0235 ST1 2,2(4-5)
/ 0004 01 02 50 0236 ENT2 4,1
0234 00 05 26 0237 ST2 Y
3998 00 01 50 0238 DEC2 3998
0208 00 03 42 0239 J2NN NOROOM
0000 01 05 24 0240 STA 0,1
0001 01 05 33 0241 STX 1,1
0002 01 05 33 0242 STZ 2,1
/ 0219 00 05 10 0225 7H LD2 TEMP
0244 00 00 39 0218 9H
6180339890 0245 0216 FHI JMP *
* CON 618033989//100000000
* *
* SYNTAX SCANNER
* *
/ 0012 00 02 48 0246 TURNSTILE ENTA 12
/ 0001 00 05 24 0247 SSCAN STA OP
0247 00 05 09 0248 LD1 OP
/ 0001 01 05 08 0249 LDA CONTROL,1
/ 0001 00 00 40 0250 JAN 2F
/ 0249 01 18 15 0251 LDX CONTROL,1(2-2)
0000 04 01 55 0252 DECX 0,4
/ 0142 00 04 47 0253 JXNZ BAD
/ 0251 01 27 12 0254 LD4 CONTROL,1(3-3)
0256 00 10 24 0255 STA *+1(1-2)
/ 0256 00 00 39 0256 UNITARY JMP *
0018 00 00 49 0257 INC1 18
/- 0001 00 01 44 0258 J4Z STACK
0000 00 02 52 0259 ENT4 0
* *
/ 0248 00 05 09 0260 COMPARE1 LD1 OP
/ 0254 01 05 08 0261 LDA CONTROL,1
0025 02 09 56 0262 COMPARE CMPA RATOR,2(1-1)
/ 0258 00 06 39 0263 JG STACK
0025 02 37 09 0264 LD1 RATOR,2(4-5)
0001 00 01 50 0265 DEC2 1
0056 03 05 08 0266 LDA RAND+1,3
0000 01 00 39 0267 JMP 0,1
* *
/ 0260 00 05 09 0268 STACK1 LD1 OP
0029 00 01 50 0269 STACK DEC2 29
0208 00 03 42 0270 J2NN NOROOM
0030 00 00 50 0271 INC2 30
/- 0001 01 05 08 0272 LDA STACKT,1
0025 02 05 24 0273 STA RATOR,2
0154 00 00 39 0274 JMP LEXSCAN
* *
/ 0148 00 05 15 0275 EQUAL LDX S
0262 00 01 47 0276 JXZ COMPARE
0002 00 02 48 0277 ENTA 2
/ 0247 00 00 39 0278 JMP SSCAN
0268 00 05 08 0279 LPREN LDA OP
0009 00 00 48 0280 INCA 9
0154 00 01 40 0281 JAZ LEXSCAN
0001 00 02 48 0282 ENTA 1
/ 0209 00 00 39 0283 JMP ERROR
0001 00 02 48 0284 IF1 ENTA 1
/ 0275 00 05 24 0285 STA S
0269 00 00 39 0286 JMP STACK
/ 0279 00 05 15 0287 IF2 LDX OP
0013 00 01 55 0288 DECX 13
/ 0253 00 04 47 0289 JXNZ BAD
/ 0285 00 05 15 0290 LDX S
/- 0001 00 01 47 0291 JXZ IF3
/ 0289 00 00 39 0292 JMP BAD
```

STZ RATOR(2-2)
JMP ERSTAK

0025	02	19	15	0293
0001	00	04	47	0294
0010	00	02	48	0295
0283	00	00	39	0296
0001	00	02	55	0297
0139	00	18	31	0298
0269	00	00	39	0299
0287	00	05	08	0300
0001	00	00	50	0301
0012	00	01	48	0302
0140	00	01	40	0303
0002	00	02	48	0304
0296	00	00	39	0305
0151	00	05	09	0306
0017	01	09	08	0307
0246	00	01	40	0308
0016	00	00	49	0309
0149	00	00	39	0310
0056	03	05	16	0311
0054	03	05	01	0312
0054	03	05	24	0313
0002	00	01	51	0314
0055	03	05	33	0315
0260	00	00	39	0316
0054	03	05	03	0317
0054	03	05	31	0318
0314	00	00	39	0319
0323	00	04	40	0320
0003	00	02	48	0321
0305	00	00	39	0322
0054	03	05	08	0323
0005	00	03	06	0324
0056	03	05	04	0325
0313	00	00	39	0326
0054	03	05	56	0327
0001	00	05	39	0328
0000	00	02	48	0329
0001	00	00	39	0330
0054	03	05	56	0331
0328	00	06	39	0332
0329	00	00	39	0333
0054	03	05	56	0334
0329	00	06	39	0335
0001	00	02	48	0336
0290	00	05	15	0337
0001	00	01	55	0338
0337	00	05	31	0339
0313	00	00	39	0340
0002	00	01	51	0341
0154	00	04	40	0342
0140	00	00	39	0343
0053	03	05	09	0344
0001	00	00	40	0345
0003	01	05	56	0346
0345	00	06	39	0347
0001	01	00	48	0348
0053	03	05	24	0349
0053	03	05	09	0350
0003	01	05	08	0351
0054	03	05	24	0352
0002	00	01	51	0353
0260	00	00	39	0354
0005	00	02	48	0355
0322	00	00	39	0356
0053	03	05	09	0357
0361	00	04	41	0358
0004	00	02	48	0359
0356	00	00	39	0360
0003	01	05	24	0361
0352	00	00	39	0362
0056	03	05	16	0363
0056	03	05	24	0364
0055	03	05	33	0365
0260	00	00	39	0366
0000	00	02	55	0367
0370	00	02	40	0368
0045	00	02	55	0369
0370	00	18	34	0370

```

REPL      LDX  RATOR,2(2-3)
          JXNZ REPL1
BAD       ENTA 10
          JMP  ERROR
ARRAY1    ENTX 1
          STX  LPRENR(2-2)
LD        JMP  STACK
          LDA  0P
          INC2 1
          DECA 12
          JAZ  NEXT
          ENTA 2
          JMP  ERROR
*
CARDEND   LD1  C
          LDA  17,1(1-1)
          JAZ  TURNSTILE
          INC1 16
          JMP  NEWCARD
*
GENERATORS (OPERATIONS)
SUB        LDAN RAND+1,3
ADD        ADD  RAND-1,3
ARITH      STA  RAND-1,3
          DEC3 2
          STZ  RAND,3
          JMP  COMPARE1
MUL        MUL  RAND-1,3
          STX  RAND-1,3
          JMP  ARITH+1
DIV        JANZ ++3
          ENTA 3
          JMP  ERROR
          LDA  RAND-1,3
          SRAX 5
          DIV  RAND+1,3
          JMP  ARITH
EQL        CMPA RAND-1,3
          JE   TRUE
FALSE     ENTA 0
          JMP  1F
LSS       CMPA RAND-1,3
          JG   TRUE
          JMP  FALSE
GTR       CMPA RAND-1,3
          JG   FALSE
TRUE     ENTA 1
1H        LDX  S
          DECX 1
          STX  S
          JMP  ARITH
IF3       DEC3 2
          JANZ LEXSCAN
          JMP  NEXT
SUBSC     LD1  RAND-2,3
          JAN  1F
          CMPA 3,1
          JG   1F
          INCA 1,1
          STA  RAND-2,3
          LD1  RAND-2,3
          LDA  3,1
          STA  RAND-1,3
          DEC3 2
          JMP  COMPARE1
2H        ENTA 3
          JMP  ERROR
          LD1  RAND-2,3
          J1NZ ++3
          ENTA 4
          JMP  ERROR
          STA  3,1
          JMP  2B
          LDAN RAND+1,3
          STA  RAND+1,3
          STZ  RAND,3
          JMP  COMPARE1
OUT       ENTX 0
          JAP  ++2
          ENTX 45
          JBUS *(PRINTER)

```

LD LDX 0P
 DECX 12
 ENTA 2
 JXNZ ERROR
 ENTA 14
 LDX RATOR(2-2)
 JXNZ ERROR
 INCZ 1
 JMP NEXT

0003	00	09	31	0371	STX	OUTBUF+2(1-1)
0000	00	01	05	0372	CHAR	
0001	00	05	24	0373	STA	OUTBUF
0002	00	05	31	0374	STX	OUTBUF+1
0001	00	18	37	0375	OUT	OUTBUF(PRINTER)
0140	00	00	39	0376	JMP	NEXT
/	3987	00	05	09	LD1	Z
0378	00	16	34	0378	JBUS	*(READER)
0016	01	05	08	0379	LDA	16,1
0017	01	05	15	0380	LDX	17,1
0000	00	00	05	0381	NUM	
0018	01	09	15	0382	LDX	18,1(1-1)
0016	01	16	36	0383	IN	16,1(READER)
0055	03	05	09	0384	LD1	RAND,3
0359	00	01	41	0385	J1Z	NOVAR
0003	01	05	24	0386	STA	3,1
0045	00	01	55	0387	DECX	45
0140	00	04	47	0388	JXNZ	NEXT
0003	01	05	16	0389	LDAN	3,1
0386	00	00	39	0390	JMP	1B
0004	00	01	51	0391	DEC3	4
0395	00	01	43	0392	J3Z	*+3
0006	00	02	48	0393	ENTA	6
/	0360	00	00	39	JMP	ERROR
0059	00	27	15	0395	LDX	RAND+4(3-3)
0393	00	01	47	0396	JXZ	1B
/	0237	00	05	15	LDX	Y
0057	00	05	09	0398	LD1	RAND+2
0004	01	01	55	0399	DECX	4,1
0393	00	04	47	0400	JXNZ	1B
0003	01	05	24	0401	STA	3,1
0001	00	02	55	0402	ENTX	1
0002	01	09	31	0403	STX	2,1(1-1)
0005	01	00	48	0404	INCA	5,1
/	0397	00	05	24	STA	Y
3998	00	01	48	0406	DECA	3998
0208	00	03	40	0407	JANN	NOROOM
/	0300	00	05	08	LDA	OP
0012	00	01	48	0409	DECA	12
0139	00	01	40	0410	JAZ	ANEXT
0001	00	00	50	0411	INC2	1
0154	00	00	39	0412	JMP	LEXSCAN

IN

1H

ARRAY

1H

*

*

*

FOR,END,GO, AND STOP STATEMENTS

0055	03	27	15	0413	LDX	RAND,3(3-3)
/-	0001	00	01	47	JXZ	BADGO
0216	00	00	39	0415	JMP	LSEARCH
/	0414	00	08	39	JNE	BADGO
0003	01	05	09	0417	LD1	3,1
/-	0001	00	05	12	LD4	L
0115	04	37	57	0419	CMP1	LOOP,4(4-5)
/-	0001	00	09	39	JLE	1F
0116	04	37	57	0421	CMP1	LOOP+1,4(4-5)
/	0420	00	06	39	JG	1F
0418	00	05	28	0423	ST4	L
0015	01	05	60	0424	CMP4	15,1
0142	00	05	39	0425	JE	NEXT1
0007	00	02	48	0426	ENTA	7
/	0394	00	00	39	JMP	ERROR
0003	00	01	52	0428	DEC4	3
0419	00	00	39	0429	JMP	2B
0423	00	05	09	0430	EQU	STACK1
/	0003	00	00	49	LD1	L
/-	0001	00	05	57	INC1	3
0208	00	07	39	0433	CMP1	=24=
0117	01	05	24	0434	JGE	NOROOM
0054	03	05	56	0435	STA	LOOP+2,1
/-	0001	00	04	39	CMPA	RAND-1,3
0430	00	05	25	0437	JL	1F
/	0306	00	05	12	ST1	L
0115	01	05	28	0438	LD4	C
0053	03	05	08	0440	ST4	LOOP,1
0115	01	10	24	0441	LDA	RAND-2,3
0014	04	37	08	0442	STA	LOOP,1(1-2)
0116	01	05	24	0443	LDA	14,4(4-5)
0140	00	00	39	0444	STA	LOOP+1,1
/	0438	00	05	09	JMP	NEXT
0014	01	37	09	0445	LD1	C
0141	00	00	39	0447	LD1	14,1(4-5)
					JMP	NEXT2

GO

2H

BADGO

1H

FORO

FOR1

0416

0422

0436

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/ 0437 00 05 12 0448
0115 04 10 14 0449
/ 0055 03 05 62 0450
/ 0001 00 08 39 0451
0003 06 05 08 0452
0001 00 00 48 0453
0003 06 05 24 0454
0117 04 05 56 0455
0115 04 37 09 0456
0141 00 09 39 0457
/ 0003 00 01 52 0458
/ 0448 00 05 28 0459
0140 00 00 39 0460
/ 0459 00 05 08 0461
/ 0001 00 01 40 0462
0008 00 02 48 0463 0451
0000 00 01 05 0464 0427
0465 00 18 34 0465
0001 00 19 31 0466
0002 00 02 49 0467
/ 0445 00 05 10 0468
0000 02 14 07 0469
0000 00 18 37 0470
0471 00 02 05 0471 0462
0472
0472
0472 0217
00000000100
00000000000 0473
00000000000 0474
09 06 00 00 00 0475 0197
00 00 00 00 00 0476
03 0478 0481 0477
06 16 19 00 00 0478
00 00 00 00 00 0479
04 0484 0487 0480
16 24 23 17 24 0481
23 00 00 00 00 0482
05 0490 0493 0483
03 16 14 14 05 0484
15 23 00 00 00 0485
15 0496 0499 0486
07 16 00 00 00 0487
00 00 00 00 00 0488
07 0000000000 0489
13 16 16 17 00 0490
00 00 00 00 00 0491
10 0502 0000 0492
23 08 05 15 00 0493
00 00 00 00 00 0494
13 0505 0508 0495
01 19 19 01 28 0496
00 00 00 00 00 0497
09 0000000000 0498
05 15 04 00 00 0499
00 00 00 00 00 0500
08 0000000000 0501
09 15 17 24 23 0502
00 00 00 00 00 0503
06 0000000000 0504
22 23 16 17 00 0505
00 00 00 00 00 0506
14 0000000000 0507
23 16 00 00 00 0508
00 00 00 00 00 0509
10 0000000000 0510
01 00000430 0511
0000000279 0512
0000000000 0513
03 00000312 0514
03 00000311 0515
05 00000317 0516
05 00000320 0517
- 0000 01 0293 0518
0000000000 0519
01 00000331 0520
01 00000334 0521
06 0000000000 0522 0272
06 00000344 0523

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END
LD4 L
LD6 LOOP,4(1-2)
CMP6 BRND,3
JNE BADFOR
LDA 3,6
INCA 1
STA 3,6
CMPA LOOP+2,4
LD1 LOOP,4(4-5)
JLE NEXT2
DEC4 3
ST4 L
JMP NEXT
*
STOP LDA L
JAZ 1F
BADFOR ENTA 8
ERROR CHAR
JBUS *(PRINTER)
STX OUTBUF(2-3)
ENT1 OUTBUF+1
LD2 C
MOVE 0,2(14)
OUT ERRBUF(PRINTER)
HLT *
*
SYNTAX TABLES
*
LROUT CON 100
CON 0
CON 0
ALF IF
CON **4,**+1(2-3),3(1-1)
ALF FOR
CON **7,**+4(2-3),4(1-1)
ALF OUTPU
ALF T
CON **10,**+7(2-3),5(1-1)
ALF COMME
ALF NT
CON **13,**+10(2-3),15(1-1)
ALF GO
CON 7(1-1)
ALF LOOP
ALF
CON **10(2-3),10(1-1)
ALF THEN
ALF
CON **13,**+10(2-3),13(1-1)
ALF ARRAY
CON 9(1-1)
ALF END
ALF
CON 8(1-1)
ALF INPUT
CON 6(1-1)
ALF STOP
ALF
CON 14(1-1)
ALF TO
ALF
CON 10(1-1)
*
CON FOR1,1(1-1)
CON LPREN
CON 0
CON ADD,3(1-1)
CON SUB,3(1-1)
CON MUL,5(1-1)
CON DIV,5(1-1)
CON -REPL,1(3-3)
CON 0
CON LSS,1(1-1)
CON GTR,1(1-1)
CON 0
CON SUBSC,6(1-1)

```

```

01 000000327 0524 CON EQL,1(1-1)
0000000287 0525 CON IF2
0000010268 0526 CON FOR0,1(3-3)
0000000367 0527 CON DUT
0000000377 0528 CON IN
0000000413 0529 CON GO
0000000448 0530 CON END
0000000391 0531 CON ARRAY
0000000260 0532 CON COMPARE1
05 00000363 0533 CON NEG,5(1-1)
0000010300 0534 0152 CON LD,1(3-3),1(2-2)
*
- 0000000169 0535 CON -BADCHAR
00 01 000262 0536 CON COMPARE,1(2-2)
0000000269 0537 0298 LPRENR CON STACK
-00 01 01 0262 0538 CON COMPARE,1(2-2),1(3-3)
-02 00000257 0539 CON -UNITARY,2(1-1)
-02 00000257 0540 CON -UNITARY,2(1-1)
04 01 000262 0541 CON COMPARE,4(1-1),1(2-2)
04 01 000262 0542 CON COMPARE,4(1-1),1(2-2)
-02 01 000275 0543 CON EQUAL,2(1-1),1(2-2)
-00 01 000306 0544 CON -CARDEND,1(2-2)
02 01 000262 0545 CON COMPARE,2(1-1),1(2-2)
02 01 000262 0546 CON COMPARE,2(1-1),1(2-2)
0000010154 0547 0261 CONTROL CON LEXSCAN,1(3-3)
0000000269 0548 CON STACK
02 000000262 0549 CON COMPARE,2(1-1)
0000000284 0550 CON IF1
0000000269 0551 CON STACK
0000000269 0552 CON STACK
0000000269 0553 CON STACK
0000000269 0554 CON STACK
0000000269 0555 CON STACK
0000000297 0556 CON ARRAY1
0000000154 0557 CON LEXSCAN
0000000269 0558 CON STACK
00 01 000262 0559 CON COMPARE,1(2-2)
00 01 000262 0560 CON COMPARE,1(2-2)
0000000461 0561 CON STOP
0000000140 0562 CON NEXT

```

```

*
* VARIABLES AND INTERPRETED PROGRAM AREA
*
M
Z CON 0
Y CON 0
C CON 0
CP CON 0
S CON 0
L
L CON 0
TEMP CON 0
CARDAREA EQU **+10
END READIN
=24
=58
=1
=30(1-1)
=5
=40(1-1)
=0
=40(1-1)

```

00000.....

BEGIN39400003

02233 +02320000639 +00002013709 +00000000001 +23360679780 +1002 +1002 +0003 +0662 +0000 +0000 02234 G 0002 00250300
02232 +00002013709 +00000000000 +00000000001 +23360679780 +1002 +1002 +0003 +0662 +0000 +0000 02224 G 0002 00250301
02233 +02200000241 +00000010250 +00000000001 +23360679780 +0000 +1002 +0003 +0662 +0000 +0000 02224 G 0001 00250303
02234 +05650000509 +00000001006 +00000000001 +23360679780 +0000 +0000 +0003 +0662 +0000 +0000 02224 G 0001 00250304
02235 +00002023725 +00000000000 +00000000001 +23360679780 +1006 +1002 +0003 +0662 +0000 +0000 02224 G 0001 00250306
02236 +00004010250 +00000000000 +00000000001 +23360679780 +1006 +1002 +0003 +0662 +0000 +0000 02224 G 0002 00250308
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02240 +00000010524 +00000000000 +00000000001 +23360679780 +1006 +12988 +0003 +0662 +0000 +0000 02224 G 0002 00250313
02241 +00001010531 +00000000000 +00000000001 +23360679780 +1006 +12988 +0003 +0662 +0000 +0000 02224 G 0002 00250315
02242 +00002010533 +00000000000 +00000000001 +23360679780 +1006 +12988 +0003 +0662 +0000 +0000 02224 G 0002 00250317
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3973 +00003010526 +00000000000 +00000000001 +23360679780 +1006 +0726 +0003 +0662 +0000 +0000 3970 G 0002 00250323
3978 +00003000051 +00000000000 +0006161900 +23360679780 +1006 +0726 +0003 +0662 +0000 +0000 3970 F 0002 00250332
3979 +0055030526 +00000000662 +0006161900 +23360679780 +1006 +0726 +0006 +0662 +0000 +0000 3970 F 0002 00250333
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3984 +0014043726 +00000490000 +0005150400 +00000000000 +1006 +0886 +0006 +0726 +0000 +0000 3978 F 0001 00250508
3985 +00030000151 +00000000000 +0005150400 +00000000000 +1006 +0886 +0006 +0726 +0000 +0000 3978 F 0001 00250510
0234 +05650000509 +00000001010 +00000000004 +9442719120 +0000 +1006 +0003 +0726 +0000 +0000 0224 G 0002 00250567
0235 +00002023725 +00000000000 +00000000004 +9442719120 +1010 +1006 +0003 +0726 +0000 +0000 0224 G 0002 00250569
3983 +0055030512 +00000000646 +0005150400 +5623059010 +1014 +0918 +0003 +0726 +0000 +0000 3978 F 0002 00250693
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3990 +05820000249 +00000000000 +0022231617 +00000000000 +1014 +0982 +0000 +0646 +0000 +0000 3983 G 0000 00250755
3991 +01150000525 +00000000000 +0022231617 +00000000000 +0582 +0982 +0000 +0646 +0000 +0000 3983 G 0000 00250756
3992 +01450000039 +00000000251 +0022231617 +00000000000 +0582 +0982 +0000 +0646 +0000 +0000 3983 G 0000 00250758
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0201 +0247000639 +0567000524+0000000015 +1523000000 +0484 +0000 +0000 +0000 -0002 +0584 0245 G 0000 00250915
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0248 +0567000509 +0000000015+0000000015 +1523000000 +0484 +0000 +0000 +0000 -0002 +0584 0202 G 0000 00250918
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0253 +0295000447 +0010000248+00000000140 +0000000000 +0015 +0000 +0000 +0000 -0002 +0584 0202 G 0000 00250926
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0346 +0003010556 +0000000020+0000000020 +0000000000 +1063 +0001 +0004 +0000 -0002 +0772 0268 L 0001 00270692
0347 +0355000639 +0005000248+0000000020 +0000000000 +1063 +0001 +0004 +0000 -0002 +0772 0268 F 0001 00270694
0348 +0001010048 +0000000000+0000000020 +0000000000 +1063 +0001 +0004 +0000 -0002 +0772 0268 F 0001 00270695
0349 +0053030524 +0000001063+0000001084 +0000000000 +1063 +0001 +0004 +0000 -0002 +0772 0268 F 0001 00270696
0350 +0053030509 +0000001084+0000001084 +0000000000 +1063 +0001 +0004 +0000 -0002 +0772 0268 F 0001 00270698
0351 +0003010508 +0000000000+0000001084 +0000000000 +1084 +0001 +0004 +0000 -0002 +0772 0268 F 0001 00270700
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0380 +0017010515 +00000003230+0000000000 +0000000000 +0966 +0000 +0002 +0000 -0002 +0772 0379 F 0002 00279994
0381 +0000000005 +0519191619+0000000000 +00000003230 +0966 +0000 +0002 +0000 -0002 +0772 0379 F 0002 00279996
0382 +0018010915 +4500000000+0000000020 +00000003230 +0966 +0000 +0002 +0000 -0002 +0772 0379 F 0002 00279997
0383 +0016011636 +0000000000+0000000020 +0000000045 +0966 +0000 +0002 +0000 -0002 +0772 0379 F 0002 00279999
0384 +0055030509 +0000001084+0000000020 +0000000045 +0966 +0000 +0002 +0000 -0002 +0772 0379 F 0002 00280000
0385 +0359000141 +0004000248+0000000020 +0000000045 +1084 +0000 +0002 +0000 -0002 +0772 0379 F 0002 00280002
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0388 +0140000447 +0566000509+0000000020 +0000000000 +1084 +0000 +0002 +0000 -0002 +0772 0379 F 0002 00280006
0389 +0003010516 +0000000020+0000000020 +0000000000 +1084 +0000 +0002 +0000 -0002 +0772 0379 F 0000 00280007
0390 +0386000039 +0003010524-0000000020 +0000000000 +1084 +0000 +0002 +0000 -0002 +0772 0379 F 0000 00280009
0259 +0000000252 +0519191619-0200000257 +0242000000 +0011 +0005 +0006 +0001 -0002 +0777 0257 G 0002 00280625
0344 +0053030509 +0000001063+0000000020 +0000000000 +0344 +0006 +0010 +0001 -0002 +0778 0268 L 0002 00280980
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0284 +0001000248 +0000000000+0000000284 +0000000000 +0003 +0000 +0000 +0000 -0002 +0791 0257 G 0000 00290109
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0289 +0295000447 +0010000248+0000000001 +0000000000 +0287 +0000 +0002 +0000 -0005 +0808 0268 F 0000 00291008
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0342 +0154000440 +0005000249+0000000001 +0000000000 +0287 +0000 +0000 +0000 -0005 +0808 0292 F 0000 00291013
0309 +0016000049 +0000000000+0000000027 +0000000000 +0806 +0000 +0000 +0000 -0002 +0820 0257 G 0002 00291103
0310 +0149000039 +0001010254+0000000027 +0000000000 +0822 +0000 +0000 +0000 -0002 +0820 0257 G 0002 00291104

0334	+0054030556	-0000000050	+0000000000	+0000000000	+0334	+0001	+0004	+0000	-0003	+0953	0268	L	0001	00332311
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0343	+0140000039	+0566000509	+0000000000	+0000000000	+0287	+0000	+0000	+0000	-0003	+0953	0292	E	0001	00332350
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0471	+0471000205	+0471000205	+0000000000	+0000000000	+0014	+0000	+0000	+0000	-0005	+0968	0463	G	0000	00332499
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0900	+0000490000	+0000000006	+0000000038	+0007160023	+1600320000
0905	+0000000000	+0000000000	+0000000000	+0000000000	+0000000000
0915	+0000000000	+0000490000	+0000000003	+0000000039	+0005150400
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0925	+0000000000	+0000000000	+0000000000	+0000000000	+0000000000
0930	+0000000000	+0000000000	+0000490000	+0000000003	+0000000000
0935	+2709000000	+0000000000	+0000000000	+0000000000	+0000000000
0940	+0000000000	+0000000000	+0000000000	+0000000000	+0000000000
0945	+0000000000	+0000000000	+0000000000	+0000490000	+0000000000
0950	+0000000000	+0009060015	+5130002308	+0515000716	+0023160030
0955	+0000000000	+0000000000	+0000000000	+0000000000	+0000000000
0960	+0000000000	+0000000000	+0000000000	+0000000000	+0000490000
0965	+0000000000	+0000000000	+0022231617	+0000000000	+0000000000
0970	+0000000000	+0000000000	+0000000000	+0000000000	+0000000000
0980	+0000490000	+0000000000	+0000000000	+0000000000	+0000000000
0985	+0000000000	+0000000000	+0000000000	+0000000000	+0000000000
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1005	+0000000662	+0000000001	+2360679780	+0000001010	+0000000726
1010	+0000000004	+9442719120	+0000001014	+0000000902	+0000000005
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1020	+0100000000	+0000000040	+0000000398	+0000000000	+0000000000
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1040	+0000000000	+0000000000	+0000000398	+0000000000	+0000000000
1045	+0000000000	+0000000000	+0000000000	+0000000000	+0000000000
1060	+0000000000	+0000000000	+0000000010	+0200000000	+0000000000
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1105	+0000000000	+0000000050	+0900000000	+0000000000	+0000000000
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3945	+3994000508	+0014012724	+0001010508	+3958000556	+3952000839
3950	+0002010908	+3959000140	+0016000049	+3993000557	+3944000439
3955	+0566000525	+0013000248	+0464000039	+0022231617	+0564000525
3960	+0032000049	+0565000525	+0582000250	+0000000251	+0000020515
3965	+3974000147	+0000000248	+0000000005	+0216000039	+3973000839
3970	+0566000526	+0012000248	+0464000039	+0003010526	+0015020527
3975	+0001020508	+3995000556	+3981000839	+0003000051	+0055030526
3980	+3986000039	+3996000556	+3986000839	+0055030512	+0014043726
3985	+0003000151	+0016000050	+0564000558	+3964000939	+0116000526
3990	+0582000249	+0115000525	+0145000039	+0000003900	+0000000049
3995	+0006161900	+0005150400	+0000000000	+0000000000	+0000000000

0000	0000	0000	0000	0000
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0000	0000	0000	0000	0000
0000	0000	0000	0000	0000
0001	0001	0001	0001	0025
0025	0025	0025	0025	0025
0001	0001	0024	0024	0024
0000	0000	0000	0000	0001
0001	0001	0001	0001	0025
0025	0005	0005	0005	0005
0000	0000	0000	0005	0025
0025	0025	0025	0003	0003
0003	0022	0022	0003	0003
0003	0025	0025	0025	0001
0001	0001	0001	0000	0000
0000	0000	0000	0000	0000

COMMENT THRETRAN TEST PROGRAM

ARRAY A(40),

ARRAY C(10)

000 INPUT N

FOR I=0000000001,N=2

1 FOR J= 1,1

GO

X TO 8

END LOOP J

2 FOR J=20,N*5

INPUT A(J++20)

INPUT B(--J)

INPUT C(A(J-B(J)))

IF -15 < A(2*J)

XTHEN

X IF I=1 THEN

XA(-(J-20))=A(J)=B(J)=J=J*J+J/(J-21)/A(40)

OUTPUT A(0)+A(20)+A(40)+B(20)+C(10)

GO TO 9

8 GO TO 2

9 END LOOP

XI

IF N>0 THEN GO TO 0

STOP

4 ✓

0000000010 ✓

20- ✓

1000000000 ✓

10

20-

2000-

50-

B(20)

398

398
398
10
398

1204

398
398
10
20-
2000-

2020-
-806-
1214-

ENTER -1,1

ADD -0