

```
01 LBL "TRI<" ;Solve Integer Triangle Program
02 FIX 0
03 CLRG
04 "NO TRI<S"
05 ASTO 06
06 ASHF
07 ASTO 07
08 CLA
09 LBL "AA" ;Enter Side
10 CF 01
11 2
12 STO 05
13 "NUMBER?"
14 PROMPT
15 ENTER
16 CLA
17 STO 01
18 2
19 /
20 FRC
21 .5
22 X=Y?
23 GTO "ODD" ;All Sides Odd (Line 34)
24 RDN
25 X=0?
26 GTO "EVEN" ;All Sides Even (Line 43)
27 GTO a
28 LBL a
29 ARCL 06
30 ARCL 07
31 AVIEW
32 CLA
33 GTO "AA" ;Enter Side (Line 9)
34 LBL "ODD" ;All Sides Odd
35 3
36 RCL 01
37 X<Y?
38 GTO a
39 2
40 *
41 SF 01
42 GTO 01
43 LBL "EVEN" ;All Sides Even
44 6
45 RCL 01
46 X<Y?
47 GTO a
48 LBL 01
49 X^2
50 STO 00
51 FS? 01
52 GTO "PROCESS" ;Find Sides (Line 74)
53 LBL 04
54 RCL 00
55 RCL 05
56 RCL 01
57 X=Y?
58 GTO "HYP" ;Hypotenuse (Line 115)
59 RDN
60 /
61 STO 04
62 2
63 /
64 1
65 X=Y?
66 GTO "HYP" ;Hypotenuse (Line 115)
67 RDN
```

```

68 FRC
69 X=0?
70 XEQ "PRINT"      ;Display Output (Line 90)
71 2
72 ST+ 05
73 GTO 04
74 LBL "PROCESS" ;Find Sides
75 RCL 00
76 RCL 05
77 /
78 STO 04
79 RCL 05
80 X<>Y
81 X<=Y?
82 GTO "HYP"      ;Hypotenuse (Line 115)
83 RCL 04
84 FRC
85 X=0?
86 XEQ "PRINT"      ;Display Output (Line 90)
87 4
88 ST+ 05
89 GTO "PROCESS" ;Find Sides (Line 74)
90 LBL "PRINT"      ;Display Output
91 RCL 04
92 RCL 05
93 -
94 2
95 /
96 STO 02
97 RCL 05
98 +
99 STO 03
100 FS? 01
101 XEQ 02
102 ARCL 01
103 >" " ;Append 1 space
104 ARCL 02
105 >" " ;Append 1 space
106 ARCL 03
107 AVIEW
108 CLA
109 RTN
110 LBL 02
111 2
112 ST/ 02
113 ST/ 03
114 RTN
115 LBL "HYP" ;Hypotenuse
116 RCL 01
117 2
118 *
119 STO 00
120 0
121 STO 03
122 LBL B
123 1
124 ST+ 03
125 RCL 00
126 RCL 03
127 -
128 LASTX
129 *
130 SQRT
131 STO 01
132 FRC
133 X=0?
134 GTO C
135 RCL 00
136 2
137 /

```

```
138 RCL 03
139 X<Y?
140 GTO B
141 GTO "AA" ;Enter Side (Line 9)
142 LBL C
143 2
144 ST/ 00
145 RCL 00
146 RCL 03
147 -
148 STO 02
149 RCL 01
150 X>Y?
151 GTO "AA" ;Enter Side (Line 9)
152 CLA
153 ARCL 00
154 >"* " ;Append 1 asterisk, 1 space
155 ARCL 01
156 >" " ;Append 1 space
157 ARCL 02
158 AVIEW
159 2
160 ST* 00
161 GTO B
162 END
```

```
0151C000F5005452493C9C008AF84E4F205452493C539A0688
9A0787C000F3004141A9011235F74E554D4245523F8E838731
1243691A15781DF34F444475671DF44556454ED0007BCF7B9B
069B077E871DF24141C000F4004F4444132144D0007B1242A8
01B200C000F5004556454E162144D0007B025130AC011DF750
524F4345535305202521781DF3485950754334124311781DF3
4859507569671EF55052494E54129205B500C000F80050524F
43455353202543342571461DF34859502469671EF55052494E
541492051DF750524F43455353C000F6005052494E54242541
124332254033AC01E000029B01F27F209B02F27F209B037E87
8503129502950385C000F400485950211242301033CF671192
03202341764252316967D000682012432344D000671DF24141
CF681295002023413221451DF24141879B00F37F2A209B01F2
7F209B027E129400D00067C0000D71
```

337 BYTES

HP-41C Integer Triangles by Richard B. Smith PPC V7 N4 P30 May 1980

Program Registers Needed: 49

Row 1 (1 - 4)



Row 2 (4 - 8)



Row 3 (9 - 13)



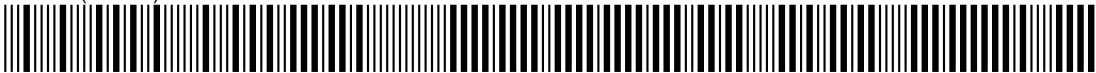
Row 4 (13 - 21)



Row 5 (21 - 26)



Row 6 (26 - 32)



Row 7 (33 - 36)



Row 8 (37 - 43)



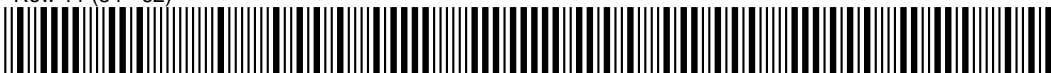
Row 9 (43 - 49)



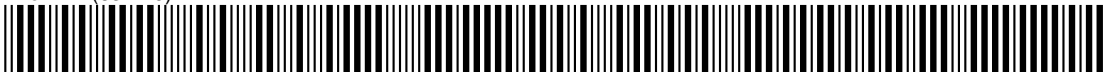
Row 10 (50 - 53)



Row 11 (54 - 62)



Row 12 (63 - 70)



Row 13 (70 - 74)



Row 14 (74 - 79)



Row 15 (80 - 86)



Row 16 (86 - 89)



HP-41C Integer Triangles by Richard B. Smith PPC V7 N4 P30 May 1980

Row 17 (89 - 91)



Row 18 (92 - 101)



Row 19 (102 - 107)



Row 20 (108 - 115)



Row 21 (115 - 124)



Row 22 (124 - 134)



Row 23 (135 - 142)



Row 24 (142 - 151)



Row 25 (151 - 156)



Row 26 (157 - 162)

