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1: ClrHome
2: Disp "ASTUDT","SUGGESTED BY","JIM EGAN","INITIAL"
3: "DEG. OF FREEDOM"→Str1
4: "T-VALUE IS"→Str2
5: "T-VALUES ARE"→Str3
6: "AREA MUST BE"→Str4
7: "BETWEEN 0 AND 1"→Str5
8: Disp Str1,"SET TO 29"
9: 29→D
10: 30→N
11: Goto 60
12: Lbl 5
13: Menu("ASTUDT","DEG. FREEDOM",10,"AREA TO LEFT",20,"AREA TO RIGHT",30,
"AREA BETWEEN",40,"QUIT",90)
14: Lbl 10
15: Disp "ENTER NEW",Str1
16: Input D
17: If D<1
18: Then
19: Disp Str1,"MUST BE ≥ 1"
20: Goto 10
21: End
22: If iPart(D)≠D
23: Then
24: Disp Str1,"MUST BE A","COUNTING NUMBER"
25: Goto 10
26: End
27: D+1→N
28: Disp Str1,"Now set to ",D
29: Goto 60
30: Lbl 20
31: Disp "ENTER DESIRED","AREA TO THE LEFT","OF T VALUE"
32: Input A
33: If A≤0 or A≥1
34: Then
35: Disp Str4,Str5
36: Goto 20
37: End
38: If A=0.5
39: Then
40: Disp Str2,T
41: Else
42: 1→B
43: If A<0.5
44: Then
45: 1-A→A
46: -1→B
47: End
48: 1-(1-A)*2→E
49: TInterval 0,√(N),N,E
50: upper→T
51: T*B→T
52: Disp Str2,T

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53: Goto 60
54: End
55: Lbl 30
56: Disp "ENTER DESIRED", "AREA TO THE RIGHT", "OF T VALUE"
57: Input A
58: If  $A \leq 0$  or  $A \geq 1$ 
59: Then
60: Disp Str4, Str5
61: Goto 30
62: End
63:  $1 - A \rightarrow A$ 
64: If  $A = 0.5$ 
65: Then
66: Disp Str2, 0
67: Goto 60
68: Else
69:  $1 \rightarrow B$ 
70: If  $A < 0.5$ 
71: Then
72:  $1 - A \rightarrow A$ 
73:  $-1 \rightarrow B$ 
74: End
75:  $1 - (1 - A)^2 \rightarrow E$ 
76: TInterval 0,  $\sqrt{N}$ , N, E
77: upper  $\rightarrow T$ 
78:  $T * B \rightarrow T$ 
79: Disp "T-VALUE IS", T
80: Goto 60
81: End
82: Lbl 40
83: Disp "ENTER DESIRED", "AREA BETWEEN", "T VALUES"
84: Input A
85: If  $A \leq 0$  or  $A \geq 1$ 
86: Then
87: Disp Str4, Str5
88: Goto 40
89: End
90: TInterval 0,  $\sqrt{N}$ , N, A
91: Disp "T-VALUES BETWEEN", lower, "AND", upper
92: Goto 60
93: End
94: Lbl 60
95: getKey  $\rightarrow K$ 
96: While  $K = 0$ 
97: getKey  $\rightarrow K$ 
98: End
99: Goto 5
100: Lbl 90
101: Disp "SO LONG..."
102: Stop
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