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1: "GENERATE THE FULL ANALYSIS
2: "FOR CONTINGENY TABLE
3: "CHI-SQUARED
4: ClrHome
5: Menu("CONTINGENY", "NEW PROBLEM", 5, "OLD PROBLEM", 10)
6: Lbl 5
7: Disp "NAME OF "
8: Input "TABLE:", [A]
9: [A]→[B]
10: dim([A])→L
11: L (1)→R
12: L (2)→C
13: R+1→S
14: C+1→D
15: {S,D}→dim([B])
16: "now get the totals
17: 0→G
18: For(I,1,R)
19: 0→T
20: For(J,1,C)
21: [B](I,J)→V
22: G+V→G
23: [B](I,D)+V→[B](I,D)
24: [B](S,J)+V→[B](S,J)
25: End
26: End
27: G→[B](S,D)
28: [B]*(100/G)→[C]
29: [B]→[D]
30: [B]→[E]
31: For(I,1,S)
32: [B](I,D)→H
33: *row(100/H, [D], I)→[D]
34: For(J,1,D)
35: [B](I,J) / [B](S,J)*100→[E](I,J)
36: End
37: End
38: {R,C}→dim([F])
39: {R,C}→dim([G])
40: {R,C}→dim([H])
41: {R,C}→dim([I])
42: 0→X
43: For(I,1,R)
44: For(J,1,C)
45: [B](I,D)*[B](S,J) / G→Y
46: Y→[F](I,J)
47: [B](I,J)-Y→Z
48: Z→[G](I,J)
49: Z²→[H](I,J)
50: Z² / Y→A
51: A→[I](I,J)
52: A+X→X
53: End
54: End
55: Lbl 10
56: ClrHome
57: Menu("SELECT TABLE", "ORIGINAL", 15, "TOTALS", 20, "TOTAL PCNT", 25, "ROW PCNT", 30,
"COLUMN PCNT", 35, "SECOND MENU", 11)
58: Lbl 11

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59: ClrHome
60: Menu("SELECT TABLE", "EXPECTED", 40, "OBS-EXP", 45, "(OBS-EXP)^2 ", 50, "(OBS-
EXP)^2 /EXP", 55, "QUIT", 60, "FIRST MENU", 10, "NEW PROBLEM", 5)
61: Lbl 15
62: Pause [A]
63: Goto 10
64: Lbl 20
65: Pause [B]
66: Goto 10
67: Lbl 25
68: Fix 2
69: Pause [C]
70: Float
71: Goto 10
72: Lbl 30
73: Fix 2
74: Pause [D]
75: Float
76: Goto 10
77: Lbl 35
78: Fix 2
79: Pause [E]
80: Float
81: Goto 10
82: Lbl 40
83: Pause [F]
84: Goto 11
85: Lbl 45
86: Pause [G]
87: Goto 11
88: Lbl 50
89: Pause [H]
90: Goto 11
91: Lbl 55
92: Pause [I]
93: Disp "CHI-SQUARED"
94: Disp X
95: Disp "DEGREES OF FREEDOM"
96: (R-1)*(C-1)→F
97: Disp F
98:  $\chi^2$  cdf(X, 9.9E9, F)→W
99: Disp "PROBABILITY"
100: Pause W
101: Goto 11
102: Lbl 60
103: Stop
104:
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