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1: ClrHome
2: Disp "ELEMENTARY ROW", "OPERATIONS."
3: Disp "Uses [H][I][J]"
4: Pause "READY..."
5: Goto 60
6: Lbl 5
7: Menu("ROW OPERATIONS", "SWAP ROWS", 10, "* ROW BY NUM", 20, "*
  ROW AND ADD", 30, "DISPLAY MATRIX", 45, "UNDO", 50, "ENTER
  MATRIX", 60, "MORE", 70)
8: Lbl 10
9: Disp "SWAP ROWS"
10: Disp "ENTER THE ROW"
11: Disp "NUMBERS THAT "
12: Disp "YOU WANT TO "
13: Disp "SWAP...."
14: Input "ROW 1: ", A
15: If iPart(A)≠A
16: Then
17: Pause "INVALID ROW..."
18: Goto 5
19: End
20: If A<1 or A>L6(1)
21: Then
22: Disp "ROW NUM IS OUT"
23: Pause "OF BOUNDS..."
24: Goto 5
25: End
26: Input "ROW 2: ", B
27: If iPart(B)≠B
28: Then
29: Pause "INVALID ROW..."
30: Goto 5
31: End
32: If B<1 or B>L6(1)
33: Then
34: Disp "ROW NUM IS OUT"
35: Pause "OF BOUNDS..."
36: Goto 5
37: End
38: [I]→[J]
39: rowSwap([I], A, B)→[I]
40: Goto 45
41: Lbl 20
42: Disp "MULTIPLY A ROW", "BY A CONSTANT"
43: Disp "ENTER ROW NUM", "AND CONSTANT"
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44: Input "ROW 1: ",A
45: If iPart(A)≠A
46: Then
47: Pause "INVALID ROW..."
48: Goto 5
49: End
50: If A<1 or A>L6(1)
51: Then
52: Disp "ROW NUM IS OUT"
53: Pause "OF BOUNDS..."
54: Goto 5
55: End
56: Input "CONSTANT: ",C
57: [I]→[J]
58: *row(C,[I],A)→[I]
59: For(D,1,L6(2))
60: [I](A,D)→E
61: If abs(E)<1E-10
62: 0→[I](A,D)
63: End
64: Goto 45
65: Lbl 30
66: Disp "* ROW BY NUM","AND ADD TO ","OTHER ROW"
67: Input "CONSTANT: ",C
68: Input "MULT ROW: ",A
69: If iPart(A)≠A
70: Then
71: Pause "INVALID ROW..."
72: Goto 5
73: End
74: If A<1 or A>L6(1)
75: Then
76: Disp "ROW NUM IS OUT"
77: Pause "OF BOUNDS..."
78: Goto 5
79: End
80: Input "ADD TO ROW: ",B
81: If iPart(B)≠B
82: Then
83: Pause "INVALID ROW..."
84: Goto 5
85: End
86: If B<1 or B>L6(1)
87: Then
88: Disp "ROW NUM IS OUT"
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89: Pause "OF BOUNDS..."
90: Goto 5
91: End
92: [I]→[J]
93: *row+(C,[I],A,B)→[I]
94: For(D,1,L6(2))
95: [I](B,D)→E
96: If abs(E)<1E-10
97: 0→[I](B,D)
98: End
99: Goto 45
100: Lbl 45
101: Pause [I]▶Frac
102: Disp [I]▶Frac
103: Goto 5
104: Lbl 50
105: [J]→[I]
106: Goto 45
107: Lbl 60
108: Disp "ENTER MATRIX BY"
109: Disp "NAME OR USE THE"
110: Disp "[ AND ] TO TYPE"
111: Disp "MATRIX DIRECTLY."
112: Input [I]
113: [I]→[J]
114: dim([I])→L6
115: Goto 45
116: Lbl 70
117: Menu("ALTERNATE MENU","SAVE IN [H]",80,"MAIN MENU",5,
"QUIT",90)
118: Lbl 80
119: [I]→[H]
120: Goto 45
121: Lbl 90
122: Pause "QUIT"
123: Stop
124:
125:
```