

ADD Rows, ADD Columns

4. (10 points) Write a program that will READ the following table into the computer (using a READ statement and DATA statements to place the table into an array).

5	7	13	12.5
2	4	6	8
9.5	7	2	1
13	5	6	12
1.1	2.2	3.3	4.4

The program should then produce the following output replacing the question mark with the sum of the corresponding row or column. The program should perform the necessary additions using the array constructed above. Statements like "PRINT 5 + 2 + 9.5 + 13 + 11" and "PRINT A(1) + A(2) + A(3) + A(4) + A(5)" are not allowed.

5	7	13	12.5	?
2	4	6	8	?
9.5	7	2	1	?
13	5	6	12	?
1.1	2.2	3.3	4.4	?
?	?	?	?	?

BUBBLE SORT

A(1) A(2) A(3) A(4) A(5) A(6) A(7)
125 119 264 506 330 219 520 530
204 445

100 FLAG = 0
110 FOR X = 1 TO ~~Y~~ ¹⁰⁰ ~~100~~ ¹⁰⁰
120 IF A(X) > A(X+1) THEN D = A(X); A(X) = A(X+1); A(X+1) = D
130 NEXT X
140 IF FLAG = 99 THEN 100
150 FOR X = 1 TO ¹⁰⁰ ~~100~~ ¹⁰⁰
160 ? A(X);
170 NEXT X

180 INPUT "Enter # you are searching for": N
190 LOW = 1: HIGH = 7: MOVE = INT((HIGH - LOW)/2)
200 WHILE N < A(MOVE) AND MOVE <= HIGH
210 IF N < A(MOVE) THEN HIGH = MOVE ELSE LOW = MOVE
220 MOVE = INT((HIGH + LOW)/2)
230 WEND
250 IF HIGH = LOW THEN = "NO GO" ELSE = "MOVE"

1000 950 690 270 100 100 250
100 200 300 400 500 600 700 800 900 1000

1000 950 690 270 100 100 250
100 200 300 400 500 600 700 800 900 1000