

21. Consider the array X with 10 elements shown below:

X(1)=15.

X(6)=13.

X(2)=4.

X(7)=21.

X(3)=8.

X(8)=9.

X(4)=7.

X(9)=3.

X(5)=1.

X(10)=3.

Provide the value of the indicated variables after each of the following program segments has been executed.

(2 pts)

a) I=3
T=X(7-I)

T= _____

(3 pts)

b) T=0
DO 20 I=1,10,3
20 T=T+X(I)

T= _____

I= _____

(3 pts)

c) K=1
DO 30 I=2,10
IF(X(K).GT.X(I))K=I
30 CONTINUE

K= _____