

Example 1: Draw a flowchart to sort three numbers in ascending order.

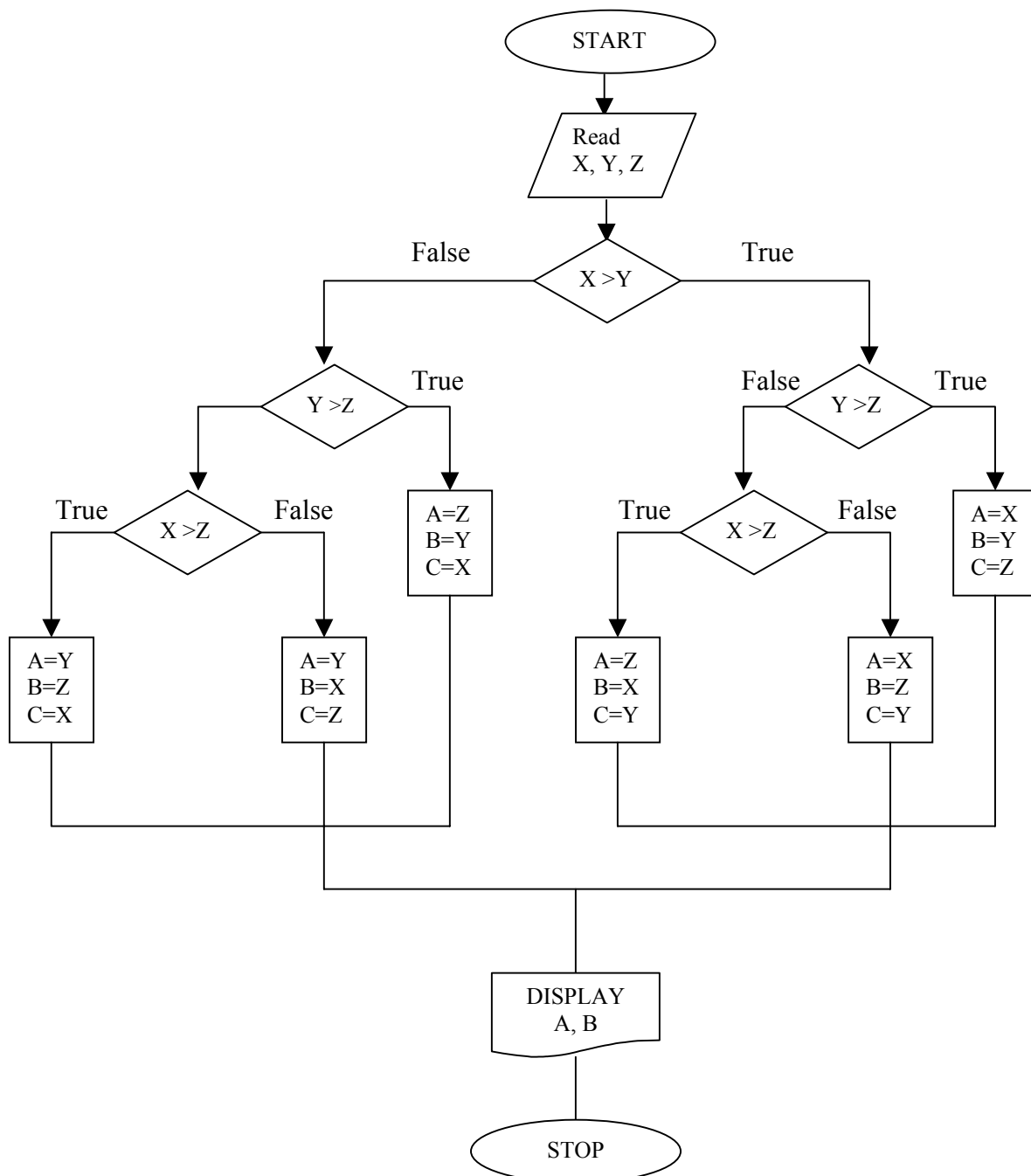
(Ascending: $\Uparrow$, descending: $\Downarrow$)

(5) x $\rightarrow$ [Redacted] $\rightarrow$ A=1
 (1) y $\rightarrow$ [Redacted] $\rightarrow$ B=5
 (10) z $\rightarrow$ [Redacted] $\rightarrow$ C=10

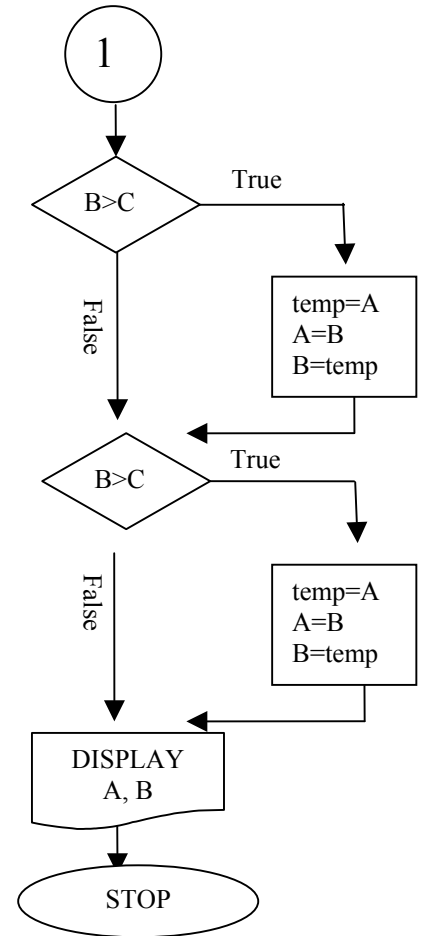
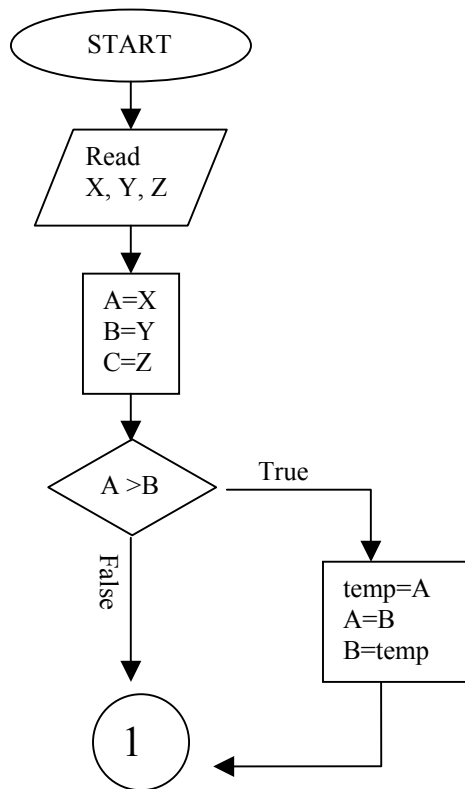
(Ascending)

(1) x $\rightarrow$ [Redacted] $\rightarrow$ A=1
 (5) y $\rightarrow$ [Redacted] $\rightarrow$ B=1
 (1) z $\rightarrow$ [Redacted] $\rightarrow$ C=5

(Non-decreasing)



Another Solution for the Question(Given by the teacher):



Solution in Pseudo Code:

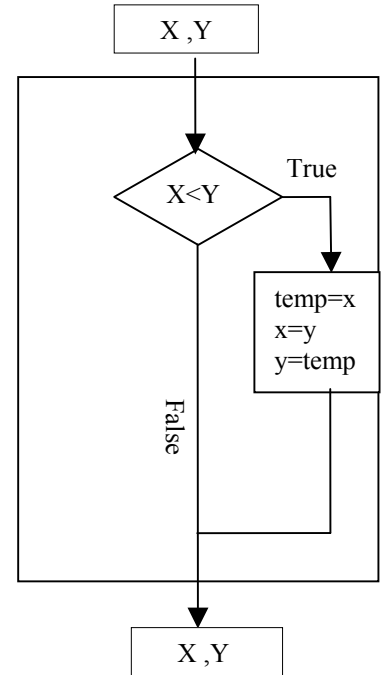
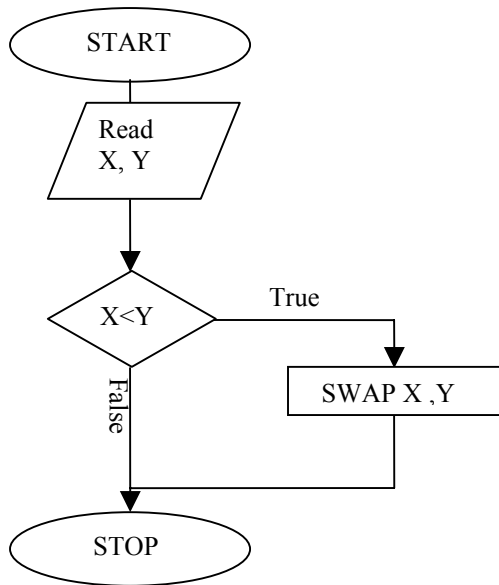
```
read: x, y, z
a=x
b=y
c=z
if a>b then
    temp=a
    a=b
    b=temp
endif
if b>c then
    temp=b
    b=c
    c=temp
endif
if a>b then
    temp=a
    a=b
    b=temp
endif
display a, b, c
```

stop

Example 2:

Draw a flowchart to sort 2 numbers.

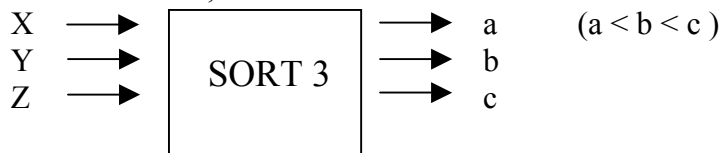
Solution:



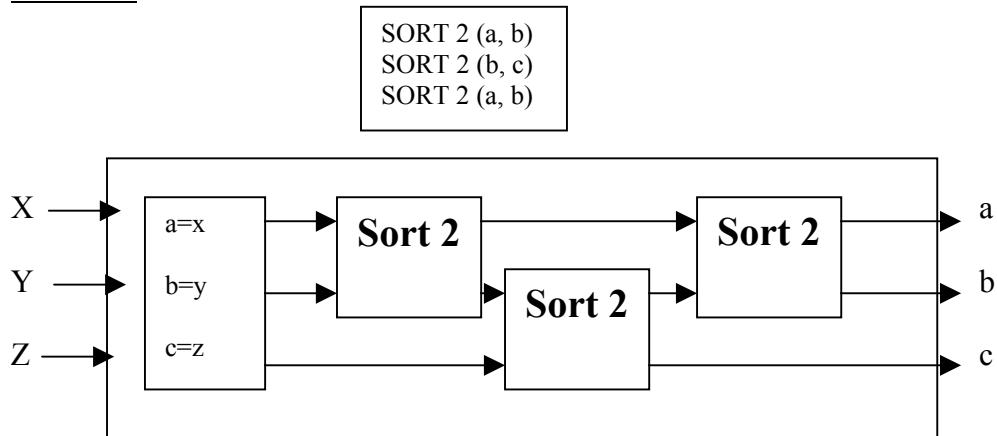
(SORT 2)

Example 3:

Sort 3 numbers;



Solution :



(Sort 3)

QUESTIONS AND THEIR ANSWERS

Question 1: Sort four numbers in ascending order in pseudo code.

Answer 1:

```
Start
  Read: x, y, z, t
  A=x
  B=y
  C=z
  D=t

  If A>B then
    Temp=A
    A=B
    B=temp
  End if

  If C>D then
    Temp=C
    C=D
    D=temp
  End if

  If A>C then
    Temp=A
    A=C
    C=temp
  End if

  If B>D then
    Temp=B
    B=D
    D=temp
  End if

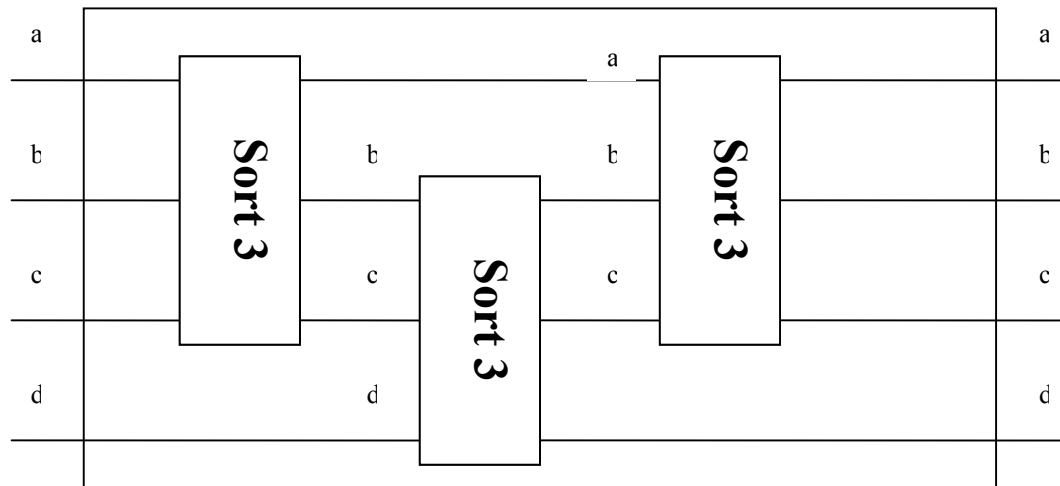
  If B>C then
    Temp= B
    B=C
    C=temp
  End if

  Display A, B, C, D

Stop
```

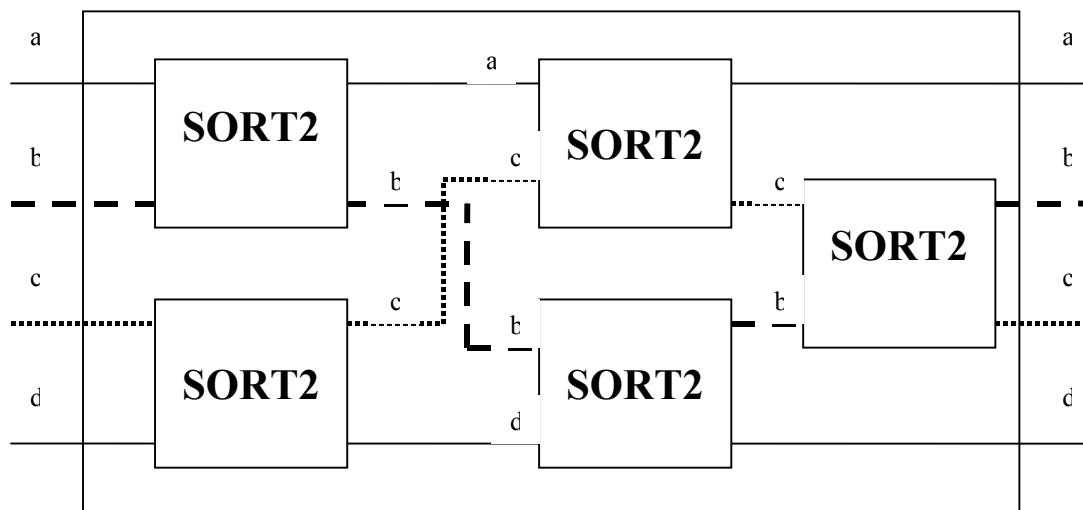
Question 2 : Try to sort 4 numbers a, b ,c, d in terms of sort3

Answer 2 :



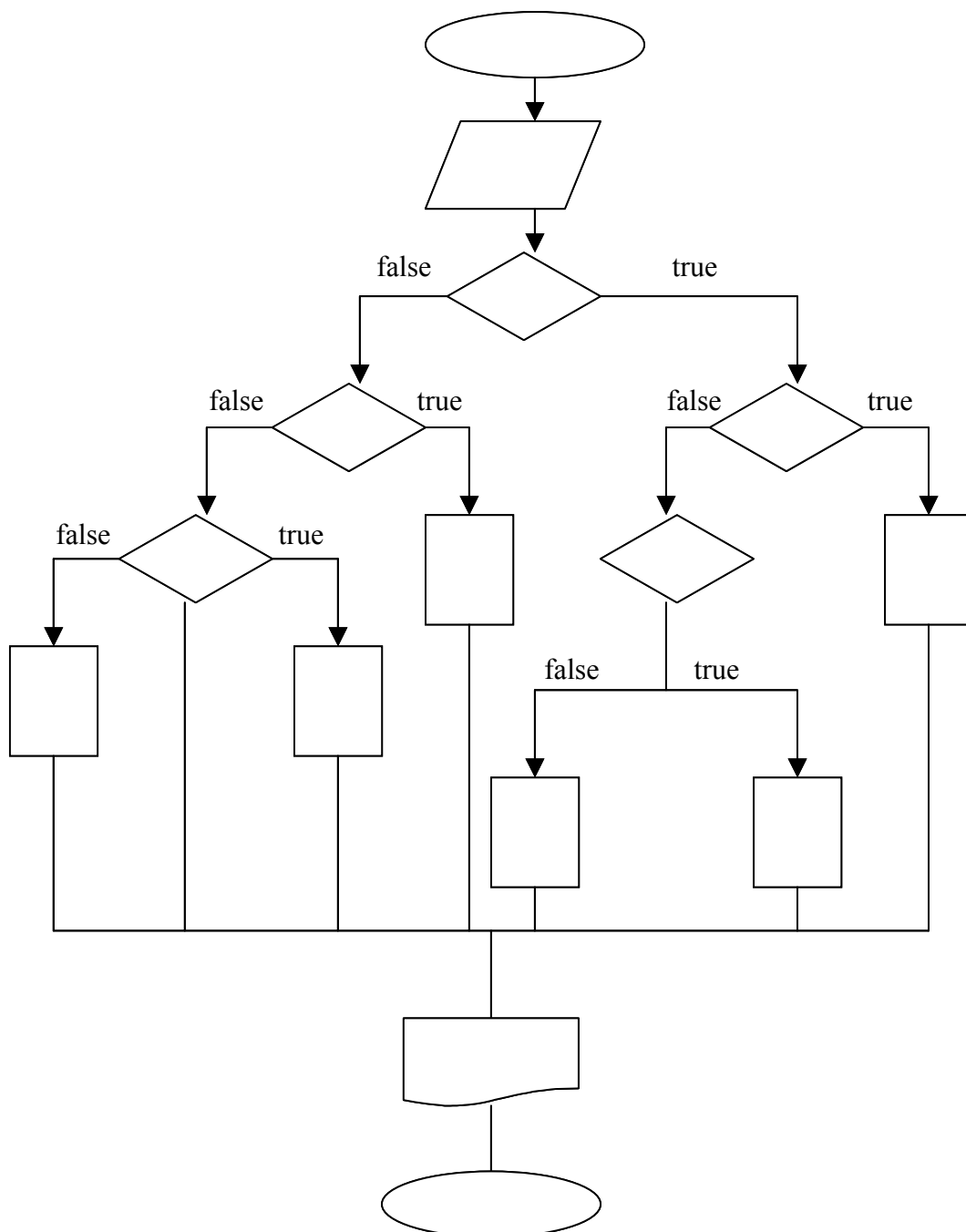
Question3 : Try to sort 4 numbers a, b, c, d in terms of sort2

Answer3 :



Question 4: Draw the flowchart of maximum(A) and minimum(B) of X, Y, Z.

Answer 4:



Question 5: Write the finding of maximum(A) and minimum(B) of X, Y, Z.

Answer 5:

Start

read X, Y, Z

if X>Y then

if Y>Z then

 A=X

 B=Z

else

if X>Z then

 A=X

 B=Y

else

 A=Z

 B=Y

else

if X>Z then

 A=Y

 B=Z

else

if Y>Z then

 A=Y

 B=X

else

 A=Z

 B=X

endif

display A, B

stop