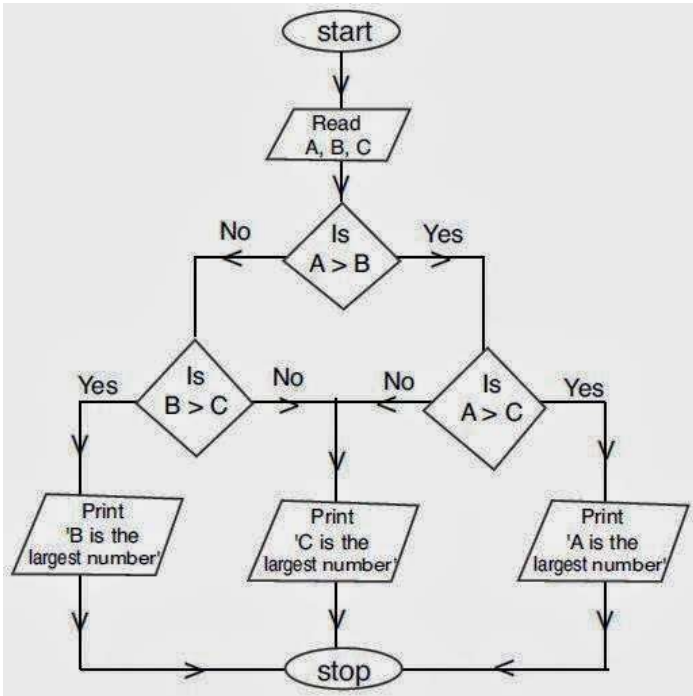
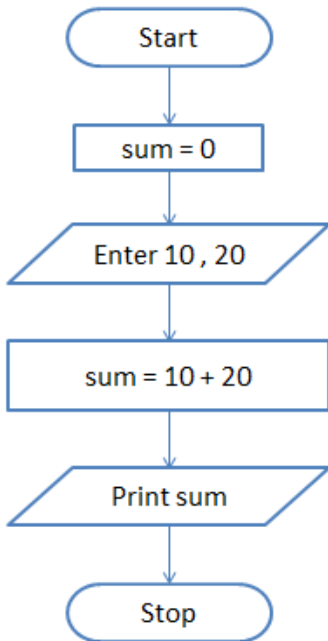


5. Write the pseudo code? What is the purpose of this algorithm?



6. Write the pseudo code?



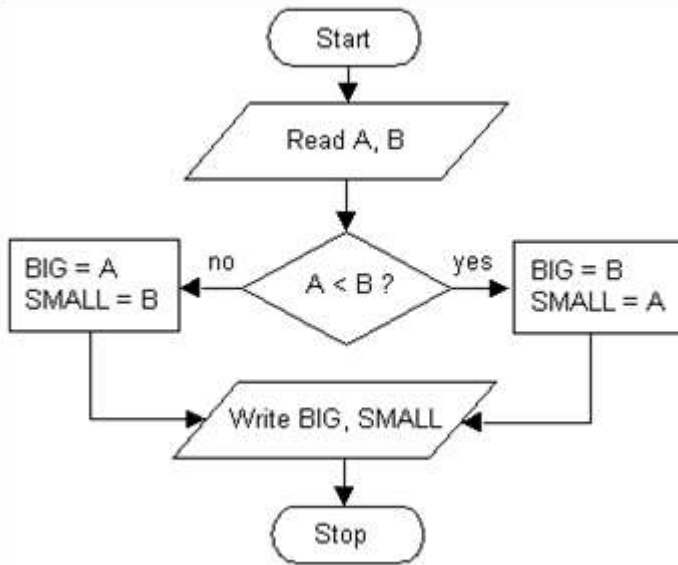
7. The following pseudo code can be used to calculate the square and cube value of a number. Convert the algorithm into flowchart.

- 1 Start
- 2 Read value of N
- 3 $S = N * N$
- 4 $C = S * N$
- 5 Write values of S, C
- 6 Stop

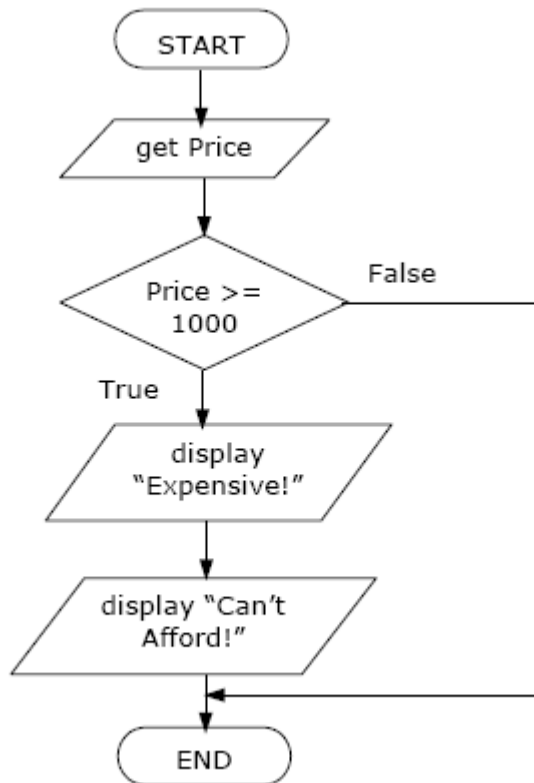
8. The following pseudo code can be used to find the biggest number. Convert the algorithm into flowchart.

- 1 Start
- 2 Read A, B
- 3 If $A > B$, then
- 4 $BIG = A$,
- 5 Else
- 6 $BIG = B$
- 7 Write BIG
- 8 Stop

9. Write the pseudo code for the following flowchart.



10. Write the pseudo code for the following flowchart.



11. List the advantages of loops in algorithms.

12. List the two real world applications which are using the infinite loops.

13. Draw the flowchart and find the output.

```
START
INPUT a=1
WHILE (a<10) DO
    OUTPUT(a)
    a = a+4
ENDWHILE
a = a+100
OUTPUT(a)
END
```

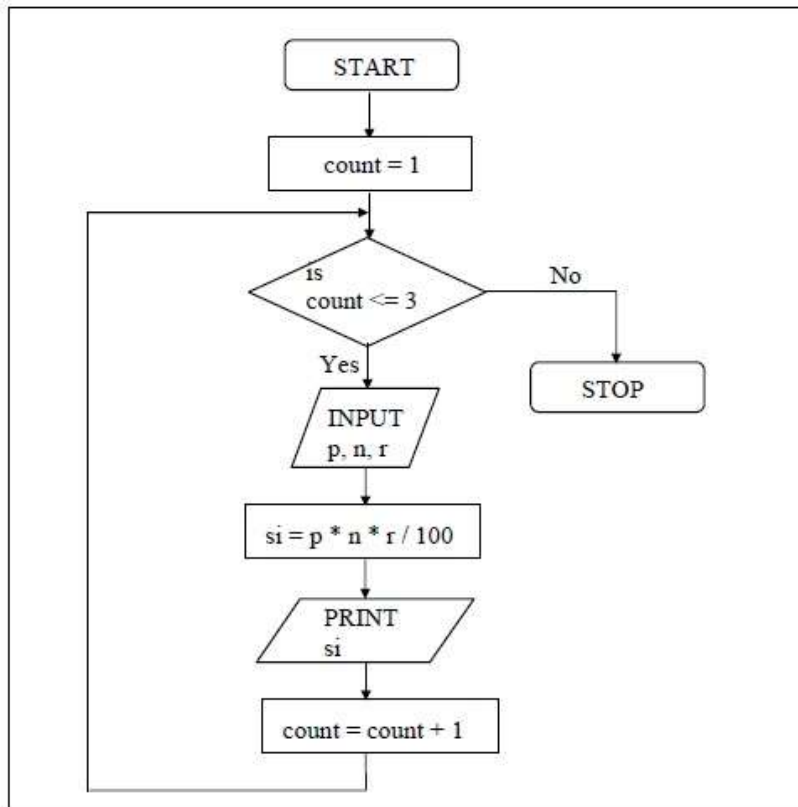
14. Draw the flowchart and find the output.

```
START
INPUT x=0, s=0
Repeat
    OUTPUT(s)
    X = x+4
    s = s +10
UNTIL (x>10)
s= s+100
OUTPUT(a)
END
```

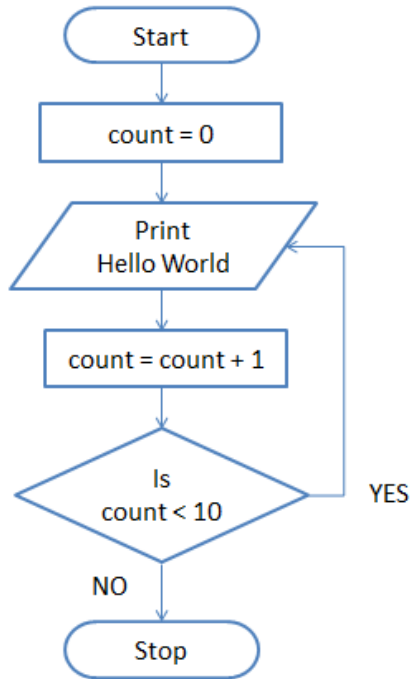
15. Draw the flowchart and find the output:

```
BEGIN
sum =0
FOR i=1 TO 4 DO
    OUTPUT sum
    Sum = sum + 100
ENDFOR
Output i
END
```

16. Write the pseudo code in using a while and for loop separately?



17. Write the pseudo code for the following algorithm?

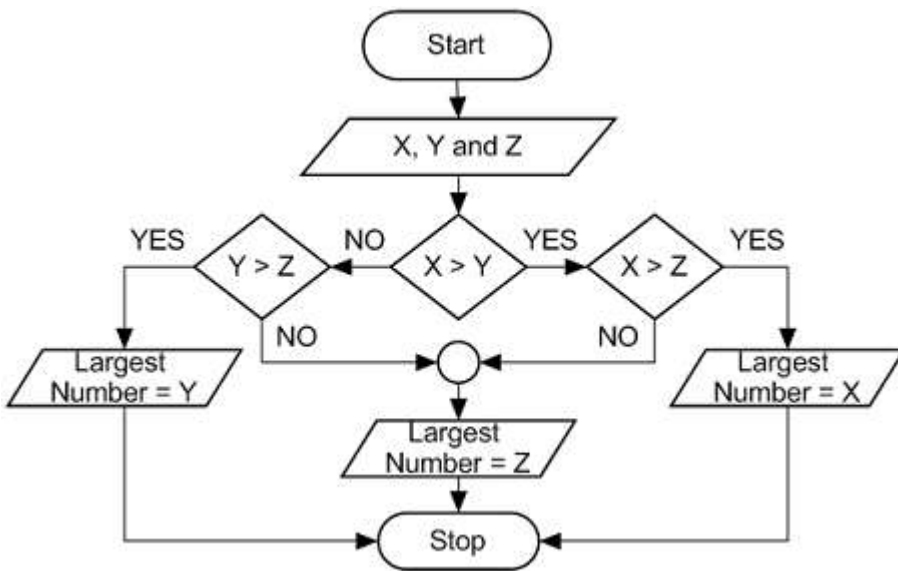


18. Write an algorithm in pseudo code to get the following grades when a user enter the marks.

Marks Range	Grade
100-75	A
74-65	B
64-50	C
49-35	S
34-00	F

19. List the three differences between WHILE loop and REPEAT loop.

20. Write the pseudo code.



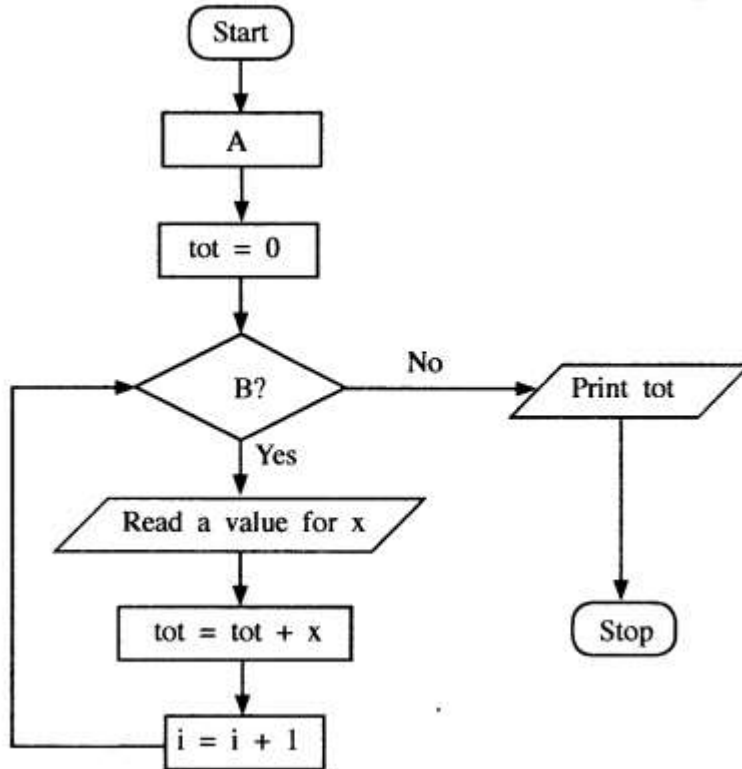
21. Write an algorithm in pseudo code to get the following outputs.

2 4 6 8 10 100

22. Write an algorithm in pseudo code to get the following outputs.

1 4 9 16 25 100

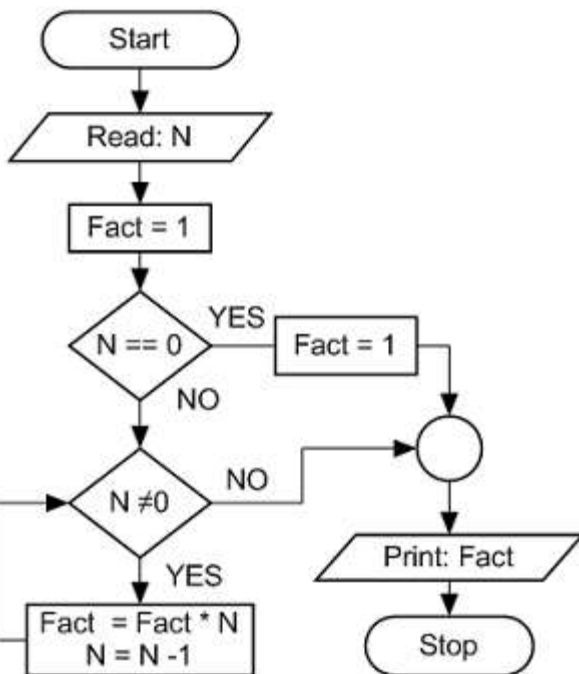
23. The algorithm represented by the following flowchart to reads 100 numbers and prints the sum of them.



In order to execute the above flowchart correctly, A and B should be replaced by.....and

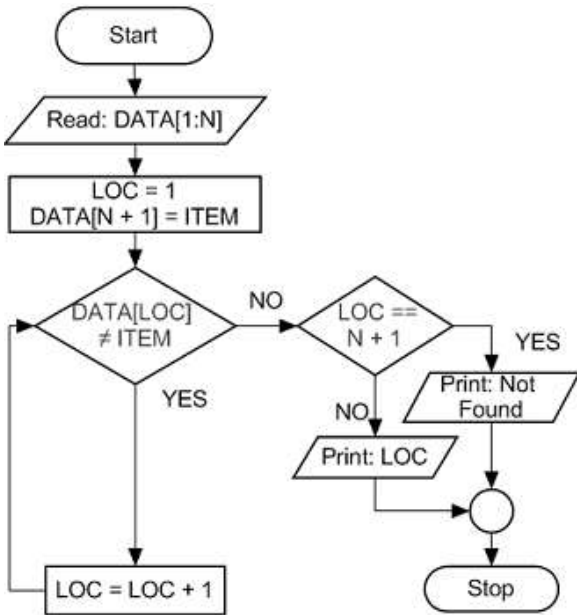
24. The consumption of electricity at houses is charged based on the number of units consumed. The first 50 units are charged at Rs.5.00 per unit, and the rest at Rs. 10.00 per unit. Draw a pseudo code to represent an algorithm that can be used to compute the total amount to be charged from a householder when the household number and present and the previous reading of the electricity meter are given.

25. Write the pseudo code and find the purpose of the flowchart.

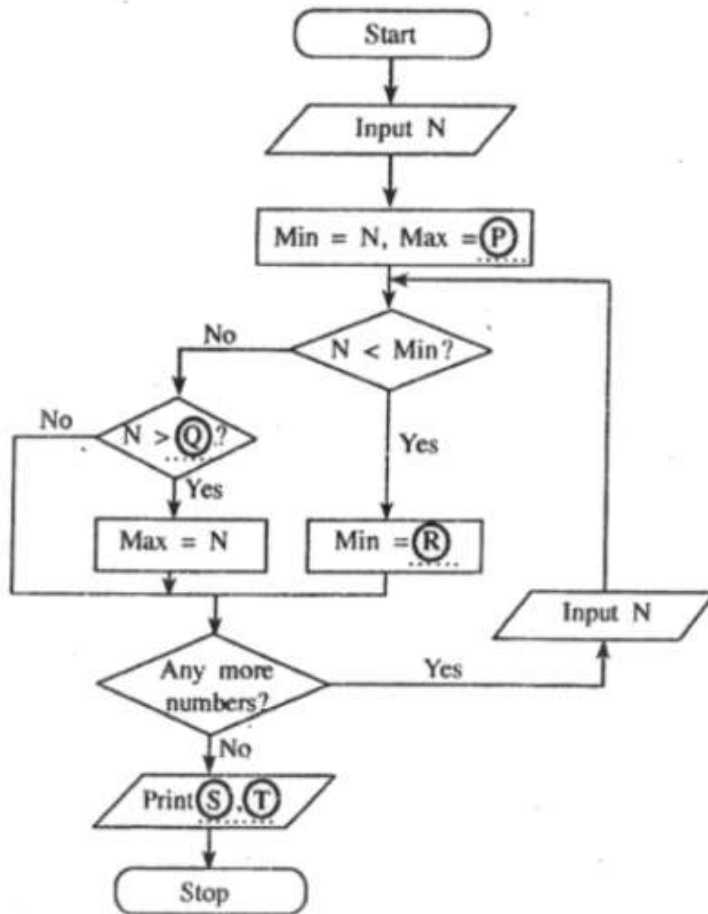


- i. Write down the input(s) of the flow chart.
- ii. Write down one possible output of the flow chart.
- iii. Write the condition of the iteration.
- iv. Write the condition for the selection.
- v. Write the statements that helps to terminate the iteration.

26. Write the pseudo code and find the output.



27. The following algorithm is used to find the minimum and the maximum number when some numbers are input. Find the value for P, Q, R, S and T from the following list. You can repeat the same value for the answer.



{Max, N, MIN}

27. The triangle can be classified as equilateral triangle, isosceles triangles and scalene triangles. An **equilateral** triangle has **three equal angles**. An **isosceles** triangle can be drawn in many different ways. It can be drawn to have **two equal angles**. A **scalene** triangle has **three different angles**. Write a pseudo code to decide the triangle is equilateral, isosceles and scalene triangle based on the three angles of the triangle input by the user.

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