

TOPIC

Computers – Section IV – Question 4

QUESTION

Given the following algorithm

```
ABC = 5
If ABC = 5 then DEF = "Peter"
If ABC > 5 then DEF = "Paul"
If ABC ≤ 5 then DEF = "Mary"
Print DEF
```

The output of the last statement is

- (A) Peter
- (B) Paul
- (C) Mary
- (D) There would be no output.

HINT

The third conditional statement also satisfies the inequality.

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SOLUTION

Since $ABC = 5$, then the first conditional statement with $ABC=5$ is true, that is,

If $ABC = 5$ then $DEF = \text{"Peter"}$

Since $ABC=5$, then the second conditional statement with $ABC>5$ is false.

However, the third conditional statement $ABC \leq 5$ is true, that is,

If $ABC \leq 5$ then $DEF = \text{"Mary"}$

Hence the value will be $DEF = \text{"Mary"}$.

The correct answer is "Mary".

ANSWER

(C)

CONTRIBUTOR

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