## CS & IT ENGINEERING

Programming in C
Data Types and Operators
DPP 02 Discussion Notes





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TOPICS TO BE COVERED

01 Question

02 Discussion

```
Q.1
```

```
include <stdio.h>
int main(void){
        int)a;
        a = 2 * 6/5 + 3.0/2 + 1;
        printf("%d", a); 4
        return 0;
}
```

The value of a is



4.9

В.

4.0

C.

4.5

D.

4

```
#include <stdio.h>
int main(void)
      int a;
     a = 16.0 / 4 * 5 % 3;
      printf("%d", a);
      return 0;
The value of a printed is
```

1, X, % LtoR  $a = \frac{f_{loat}}{16.0/4 \times 5} = \frac{16.0}{4} \times \frac{5}{3}$ a = 4.0 × 5./. 3 Both operands 20.0 / 3 must be int float int type.

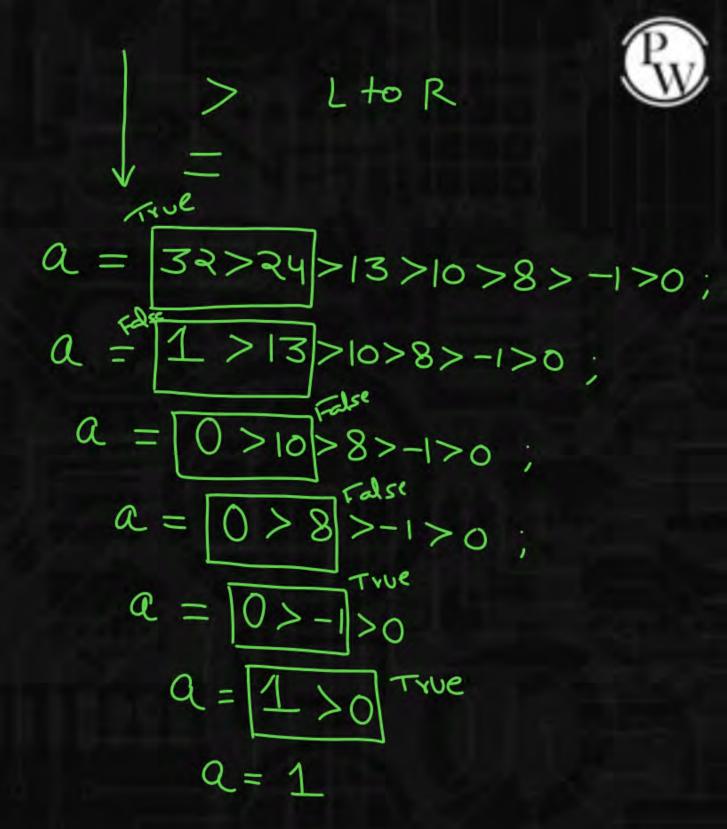


Compiler error

8.0

```
Q.3
```

```
Consider the following program.
#include<stdio.h>
void main()
       int a;
       a=32>24>13>10>8>-1>0;
        printf("%d",a);
The output is
```



```
Q.4
```

```
#include<stdio.h>
void main()
     int a;
     a=25>15>0!=12<45>42!=65;
     printf("%d",a);
The output is \triangle.
```

## Consider the following program:

#include<stdio.h> void main()

int a=0, b=1;a=(a=5)&&(b=0);printf("%d", a); printf("%d", b);

The output is:







(B)



a

6

$$a = \left(\frac{a = 5}{0}\right) \Omega \left(b = 0\right)$$

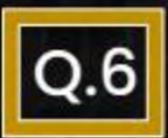
$$a = \left(5 22 \left(b = 0\right)\right)$$

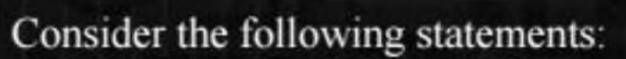
$$a = (5820)$$

$$a = 0$$

Compiler error









P: The precedence of the modulus operator is higher than multiplication or division operator.

1. X,/

Q: The result of the modulus operator contains the sign of the second operand.

Which of the following statements is/are INCORRECT?



Only P



Only Q



Both P and Q



Neither P nor Q



## Consider the following program:

#include<stdio.h>

void main()

int a=2022;

printf("%d%d%d", a!=2024, a=2023, a==2021);

The output is-

2022



 $\mathcal{D}$ 

2022== 2021

0

120230

2023 0 1

020220

В. 020231

2023 = 2024

002021

120230

## Consider the following program:

