# CS & IT ENGINEERING

Control flow statements

Programming in C

DPP 02 Discussion



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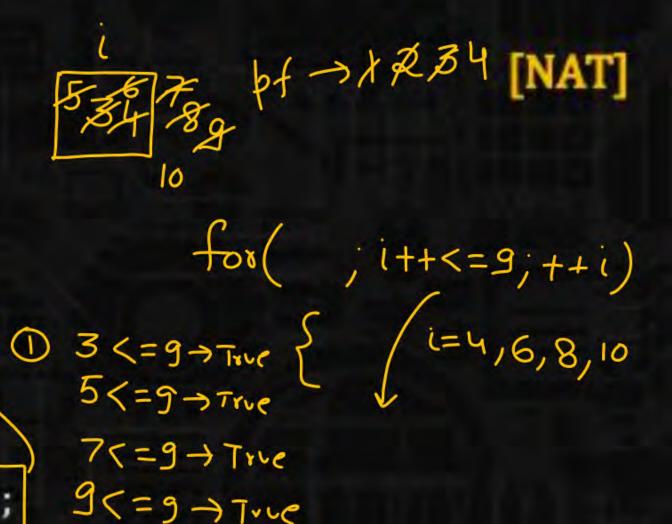
## [NAT]



```
#include<stdio.h>
int main()
      int i=3;
      for(;i++<=9;++i);
   printf("%d",i);
      return 0;
The output is _
```

```
Consider the following program:
                                                         (1) use the value
                                                         (ii) After that inc.
```

```
#include<stdio.h>
int main()
  for(;i++<=9;++i)
     printf("best hai GATE Wallah");
      if(i>8) break;
  return 0;
```



The number of times printf() executed is \_\_\_\_\_







7=100



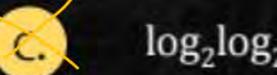
```
#include<stdio.h>
                                          1=2, 2<=100 → True
int main()
                                         1=4, 4<=100 -> True
   int i=0;
                                         1=8, 8<=100 -> True ~
   for(i=2; i <= n; i^*=2)
                                         (= 16, 16<= 100 -> True
   printf("GATE WALLAH 2024");
                                       1=32, 32(=100 -> True V

1=64, 64(=100-> True V

1=128, 128(=100-> False
   return 0;
```

The number of times printf() executed is approximated as-







```
#include <stdio.h>
int main()
   int i;
```

for(i=printf("GATE");i<printf("Wallah2023");)

return 0;



The number of times "Wallah2023" is printed is-



4

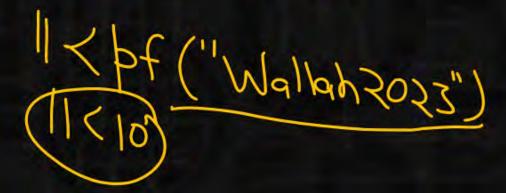












```
for (i=1; i <= n; i++) [MCQ]
```



```
#include <stdio.h>
    int main()
       int i, j, n;
       for(i=1;i \le n;i++)
Code for(j=1;j<=n;j++)
       printf("GATE Wallah");
       return 0;
```

Code to brint Something n times

for (i=1; i(=n; i++)

How many times will the printf() statement be executed when n=32?



128

1024

32×35



512

256



```
Consider the following program:
#include <stdio.h>
int main()
  int i, j, n, count=0;
                           31X32
  for(i=1;i \le n;i++)
  for(j=1;j\leq i;j++)
   count+=1;
  printf("%d", count);
  return 0;
When n=31, the output is _{-}^{496}
```

```
for ( i= 1; i <= n; i++)
     code for ( j= 1; j <= i; j++)
                    count = count + 1
      i=2
j=1,2
j=1,2,3
j=1,2,...n
   1+5+31···+D = D(N+1)
```

#include <stdio.h>

int main()

int a,i;  

$$i = 78$$
,  $78 < 90 \rightarrow \text{True}$   
 $a = 12.5/5 + 31.2/2*5 - 5$ ;  $i = 81$ 

The output is-

107 110 113 116 119512



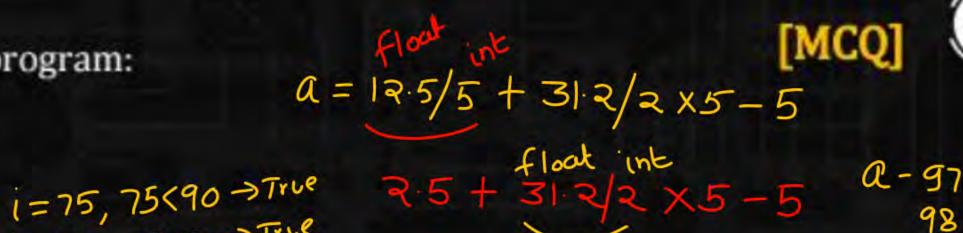
KLMNO

84(90

87<90~



Garbage values



$$75.5$$

$$Q = 75$$

$$K = 75$$

$$K = 9 + 22 + 10$$

$$81+32 + 110$$

$$81+32 + 113$$



knqtw





