## CS & IT ENGINEERING

Control flow statements

Programming in C

**Loops-2**/Iterative Statements-2 **DPP** 03 Discussion



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TOPICS TO BE COVERED

01 Question

02 Discussion



```
#include <stdio.h>
                                76843240-1
int main()
                                                   (i) 9 27 > 1001
                                                                   000131
     int a=7, b=8;
                                                  (ii)
                                                        1026 > 1010
     while(++b & a--)
                                8940H21341B16
                                                                   001032
                                                  (iii)
         printf("HI!");
                                Vii) 15 & 1
                                      0001
      return 0;
                            0000
                                      000171
                           00000
                           00000 > Falso
                                                                    0100=)4
The number of times the printf() executed is _____.
                                           (vi) 14 & 2 > 1110 = 2
```



```
#include <stdio.h>
   int main(){
                                         4 8
      int a=5, b=10;
      while(++b & a-- ){
                                         3 10
       switch (b){
       case 0: b=b-1;
       break;
                                          BX3
       case 1: b=b-2;
                                     a
       break;
       default: b=b-3;
                                      6
                                           10×189
    break;
   printf("%d\t%d", a, b);
                                                      1000
   return 0;
```

The output is-

```
int main(){
```

3 0

В.

4 2

b++ ⇒ b while (2)

[MCQ]

While (2)

While (0)

int a=1, b=2; do{ while(b++){ b=b-a; a=a+b;

while(a++<2);

printf("%d\t%d", a, b); return 0;

The output is-

A.

3 2

a

4 \$ \$ 4

发为又为《1

D

#include <stdio.h>





```
int main(){

Folse

int a,b;

4 > 6

a=printf("GATE")>printf("Wallah")?

printf("2023"):printf("Hi!!");
```



GATEWallahHi!!33

B. GATEWallah202303



GATEWallah202330

D. GATEWallahHi!!00

```
b=a-1;
    while(a>b){
switch(b){
          case 1: b=--a;
          case 2:b=a--;
          default:b=--a;
    printf("%d%d", a, b);
    return 0;}
```

The output string is-

```
#include <stdio.h>
    int main()
      int i=16;
      do
         i=i-2;
         printf("%d",i);
      while(i++);
      return 0;
                                    05
The sum of all printed values of i is ___?
```

```
14,13,12,11
                                [NAT]
1614181314 JZ 13
                       1++ =)14=> True
                            13 => True
                       i++= 12= 7 ruc
         1ライダイズの
                14,13,12,11,10,9,-...2,1
                                     1=) True
          0,1,2,3, - - 14
                                     0 => False
                7 14XIS = 7XIS
                                    こかいけり
```

#include <stdio.h> 10m-n

[MCQ]



include 
$$<$$
stdio.h>
int main()

(
int a, b;
while(a!=b)

(
(1) a=a/2;
2) b=b\*2;
3) if(b>a) break;

(1) a=a/2;
(1) a=a/2;
(2) b=a/2
(3) a=a/2;
(4) b=a/2
(5) a=a/2
(6) a=a/2
(7) a=a/2
(7) a=a/2
(9) a=a/2
(1) a=a/2
(1)

(iii) 2561=256 False

If  $a = 2^m$  and  $b = 2^n$  where m-n is even and positive, the number of times the loop runs is-

10=6 = Even

64 128 256





```
#include <stdio.h>
   int main()
                      if (4-3) = if (1) Anon-zero
                                                                        GATE
     int x=5, y=10;
     if(printf("GATE")-3){
                           while (x - -)
     while(x--) y=y+x;
     else y=y-x;
                               Y=4+x;
     return 0;
  The value of y at the end of the program is
```

```
#include <stdio.h>
              & Folse
   int main()
                                        B678910
     int x=5, y=5;
     while(x-=y++<10){
                                         x=x-(9<10)
                                          スニョー1
   return 0;
                                            X=0
The number of times "GATE WALLAH" printed is _
                                 times
```

[NAT]



$$X = X - (9+1<10)$$
 $5 < 10$ 
 $x = X - 1$ 
 $x = X - (6<10)$ 
 $x = X - (1<10)$ 
 $x = X - 1$ 
 $x = X - (8<10)$ 
 $x = X - 1$ 



