CS & IT ENGINEERING

Control Flow Statements

Programming in C

Switch statement **DPP 04 Discussion Notes**



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TOPICS TO BE COVERED

01 Question

02 Discussion

```
Q.1
```

```
#include <stdio.h>
  void main()
     int i = 0;
     switch(i)
         case 0: i = i + 1;
         case 1: i = i + 3;
         case 2: i = i * 2;
         break;
         default: i = i + 5;
  The value of i is 8
```



```
#include <stdio.h>
  void main()
     int a, b, c, d, e;
     b = 1; c = 1; d = 2; e = -1;
                                              (b++ ll c-) | (d++ ll e--)
     a = b++ && c-- | | d++ && e--;
     switch(c)
                                -1+2+0
          case 0 + a = a + 1;
          case 1: a = a - 1;
          default: a = a - 2;
  The final value of (a + b + c + d + e) is  ^2
```

```
#include <stdio.h>
int main(void)
          int x;
          scanf("%d", & x);
                                              M
                               X
          switch(x)
                              76112
                                              Garbage
          case 0: x = x + 1;
           break;
                                              ERROR
                                        D.
           case 1: x = x - 11;
           case 2: x = x + 128;
           break;
          printf("%c", x);
                               112
          return 0;
   What is the output when x = -4?
```

[MCQ]



```
\frac{2 \times 3/6 + 2.0/5 + 0.2 \times 3}{6/6 + 2.0/5 + 0.2 \times 3} [MCQ]
#include <stdio.h>
int main(void)
                                                         Hibest haiGATE Wallah
   int q, r = 0;
   q = 2 * 3/6 + 2.0/5 + 0.2 * 3;
  r = -q - \frac{1}{3} \delta = -q \frac{1}{3}

switch(q - r) q = q - \frac{1}{3}
                                                         best haiGATE Wallah
      case 0: printf("Hello");break;
                                                         GATE Wallah2023
      case 1: printf("Hi");break;
       case 2: printf("best hai");break;
                                                         GATE Wallah
     -case 3> printf("GATE Wallah");
                                                               float ink
       default: printf("2023");
   return 0;
The output of the program is GATE Wallah 2023
```

The output is-

```
#include<stdio.h>
                                                                      [MCQ]
  int main()
                                                   -15 -30 -42 -45
    int j=10, p=0;
    for(;j>0;)
                      107 XX-2
                                              В.
                                                   -15 -45 -30 -42
       switch(j)
                       Ø-8-15-23-30-38
                                                   -15 -30 -42 -39
         case 1; p+=3;
          case 2: p+=5;
                        J= 10 ->(i) swilch(10)
          break;
                                 8--8-0=9
          default: p-=8;
                                                   -15 -30 -45 -37
          case 3: p-=7;
                          j= 7 ->(i) switch(7)
          break;
                                                   -15
                                                         -30
                                   P=P-8
   ②
                                    = -12-8=-53
          j=j-3;
                          jeu - yi switch(4)
                                                   zwitch(1)=)
   3
          printf("%d\t",p);
                                  P=-30.8:-38
      return 0;
```

```
#include<stdio.h>
                              0×7818 1623243+32
  int main()
                        switch(o) => x=x+2
  for(x=0; x<32; x++)
                                      X = X+5
                                       X= X+1
  (I) switch(x)
                                       X=x+7
                             switch(16) => defoult:
        case 0: x = x + 2;
       case 1: x=x+5;
                                             X=X+7
       case 2: x=x+1;
                             Switch(24) \Rightarrow x = x + 7
        default: x=x+7; \checkmark
  printf("%d\t",x);
     return 0;
  The sum of the values printed is
```

% 15 23 31 PW

32<32 => felso



Consider the following two statements:

Incorrect

P: Case label can be integer or character or floating point numbers.

Q: Only one default is allowed in switch-case structure. Conec-

Which of the following statements are INCORRECT?

[MCQ



Both P and Q



only Q



Only F

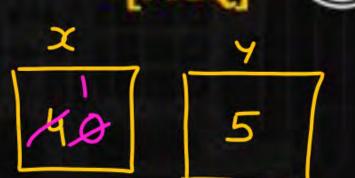


Neither P or Q.



```
#include<stdio.h>
  int main()
    int x=4, y=5;
                     7 ignore
    x=x==y==5;
    switch(1)
               x=x+11;
  printf("%d",(++x);
  return 0;
  The output is-
```





A.

c. 11

D. Compiler Error

$$x = x = y = 5$$

$$\begin{cases} y = 5 \\ x = 0 \\ 0 = 5 \end{cases}$$

$$x = 0$$

$$x = 0$$



