

Examples on Flow control

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Common errors with scanf() and its solution by fflush()

Functions for good programming practices

1. Modular
2. Reusable
3. Minimum LOC
4. Efficient or well written Program

Patterns Problem

Question 1

What will be the output of following program ?

```
#include <stdio.h>
int main()
{ int i = 0;
  switch (i)
  { case '0': printf("Case 1");
    break;
    case '1': printf("Case 2");
    break;
    default: printf("Case Default");
  }
  return 0;
}
```

OPTIONS

- A. Case 1
- B. Case 2
- C. Error
- D. Case Default

Question 2

WHAT WILL BE THE OUTPUT OF FOLLOWING PROGRAM ?

```
#include <stdio.h>
int main()
{
    int i = 9;
    switch (i)
    {
        case 3+6: printf("Case 3+6");
                    break;
        case 1+3: printf("Case 1+3");
                    break;
        case 9: printf("Case 9");
                    break;
        default: printf("Default");
    }
    return 0;
}
```

OPTIONS

- A. Case 3+6
- B. Case 1+3
- C. Case 9
- D. Error

Question 3

HOW MANY TIMES WILL **BIT** BE PRINTED IN
THE ABOVE PROGRAM?

```
#include <stdio.h>

int main()
{
    int i = 2048;
    for ( ; i; i >>= 1)
        printf("BIT");

    return 0;
}
```

OPTIONS

- A. 12
- B. 10
- C. infinite
- D. Run time error

Question 4

WHAT WILL BE THE OUTPUT OF FOLLOWING PROGRAM ?

```
1. #include<stdio.h>
2. int main()
3. {
4.     int n;
5.     for (n = 9; n!=0; n--)
6.         printf("n = %d", n--);
7.     return 0;
8. }
```

OPTIONS

- A. 9 7 5 3 1
- B. 9 8 7 6 5 4 3 2 1
- C. 9 7 5 3
- D. Infinite Loop

Question 5

WHAT WILL BE THE OUTPUT OF FOLLOWING PROGRAM ?

```
#include <stdio.h>

int main()
{
    int c = 5, no = 10;
    do {
        no /= c;
    } while(c--);
    printf ("%d\n", no);
    return 0;
}
```

OPTIONS

- (A) 1
- (B) Runtime Error
- (C) 0
- (D) Compiler Error

Home work

Write a menu Driven Program that performs following

1. 1's complement of a binary number
2. Two's complement of a binary number.
3. To convert Decimal to binary
4. To convert binary to Decimal
5. Pattern (pyramid of numbers)

Hint:

Use Switch case and conditional infinite loop. and all the individual program must be inside their respective case Block.

Queries and Feedback

