

# Problems on CPP loops-2

## MCQs



Q1- What would be the output of the following code snippet :

```
#include <iostream>
using namespace std;

int main() {
    for (int i = 1; i <= 5; i++) {
        if (i == 3)
        {
            break;
        }
        cout << i << endl;
    }
    return 0;
}
```

- a) 1  
2
- b) 1  
2  
4  
5
- c) 0
- d) None of the above

Q2- Find the output of the following :

```
#include <iostream>
using namespace std;
int main()
{
    int loop; //loop counter
    for(loop =1; loop<=3; loop++)
    {
        if(loop==2)
        {
            cout<<" continue...\n";
            continue;
        }
        cout<<loop;
    }
    cout << " BYE BYE!!!";

    return 0;
}
```

- a) 1 BYE BYE !!!
- b) 1 continue  
3 BYE BYE !!
- c) 1 continue...  
2 BYE BYE!!!
- d) None of the above

Q3- Mark the output of the following code block :

```
#include <iostream>
using namespace std;
int i = 30;
int main()
{
    int i = 10;
    for (i = 0; i < 5; i++)
    {
        int i = 20;
        cout << i << " ";
    }
    return 0;
}
```

- a) 30 30 30 30 30
- b) 10 10 10 10 10
- c) 20 20 20 20 20
- d) Error

Q4- What is the output of the following :

```
#include <iostream>
using namespace std;

int main()
{
    int n = 1;
    while( n <= 3){
        cout << n << " ";
        n++;
    }
    cout << n;
    return 0;
}
```

- a) 1 2 3 3
- b) 1 2 3 4
- c) 1 1 1 1
- d) 1 2 3 1

Q5- Mark the output of the following code :

```
#include <iostream>
using namespace std;
int main()
{
    int n = 1;
    do{
        cout << n << " ";
        n++;
    }while( n < 1 );
    cout << n;
    return 0;
}
```

- a) 11
- b) 12
- c) Error
- d) None of the above

#### Answers:

Ans 1 : a) 1

2 Since, the program comes out of the loop the moment it encounters the break condition at i=3.

Ans 2 : b) Since continue statement will skip the current iteration

Ans 3 : c) As the last updated value of i is 20,so it will print 20 20 20 20.

Ans 4 : b) 1 2 3 4 ; since the increment is done after the printing statement in the while loop and increment happens after that.

Ans 5 : b) 1 2 ; since the do while loop will run once despite the condition is not true.