

L7 : Test 1 Questions

Q1: If & Else

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Find the output.

```
int p = 100;
if(p > 20) {
    if(p < 20) {
        printf("coding");
    }
} else {
    printf("ninjas");
}
```

Options

[This problem may have one or more correct answers](#)

coding
ninjas
codingninjas
No Output

Correct Answer: D

Q2: Order the code

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Write the correct order(s) of statements.

We want to print "Coding Ninjas" 10 times.

```
1. while(x <= 10) {
2. int x = 1;
3. x += 1;
4. cout<<"Coding Ninjas"<<endl;
5. }
```

Options

[This problem may have one or more correct answers](#)

2 3 1 4 5
2 1 3 4 5
2 1 4 3 5
1 2 4 3 5

Correct Answer : B , C

Q3: Predict the output

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Figure out the output

```
int x = 10;
while(x >= 0) {
    x = x - 1;
    print(x);
    x--;
}
```

Options

This problem may have one or more correct answers

97531

97531-1

10864

10987654321

Correct Answer : B

Q4 : And/Or Operator

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Please select the correct statement(s) about && and || operators.

Options

This problem may have one or more correct answers

a && b is true if either a or b is true

(a || b) && c is true if c is true and either a or b is true

a && b is false if both a and b are true

a || b is true if either a or b is true

Correct Answer : B , D

Q5 : Pyramid Number Pattern

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Print the following pattern for the given number of rows.

Pattern for N = 4

1

212

32123

4321234

Input format : N (Total no. of rows)

Output format : Pattern in N lines

Sample Input :

5

Sample Output :

```
1
212
32123
4321234
543212345
```

```
1. #include<iostream>
2. using namespace std;
3.
4. int main(){
5.
6.     // Write your code here
7.     int N;
8.     cin >> N;
9.     int i =1;
10.    while(i <= N){
11.        int space = 1;
12.        while(space <= N-i){
13.            cout << " ";
14.            space++;
15.        }
16.        int num =i;
17.        while(num >= 1){
18.            cout << num;
19.            num--;
20.        }
21.        num =2;
22.        int k =1;
23.        while(k<= i-1){
24.            cout << num;
25.            num++;
26.            k++;
27.        }
28.        cout<<endl;
29.
30.        i++;
31.    }
32.
33. }
```

Q6 : Number Star Pattern

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Print the following pattern for a given number of rows.

Input format :

Line 1 : N (Total number of rows)

Sample Input :

```
5
```

Sample Output :

1234554321

1234**4321

123*****321

12*****21

1*****1

```
1. #include<iostream>
2. using namespace std;
3. int main(){
4.
5.     // Write your code here
6.     int N;
7.     cin >> N;
8.     int i =1;
9.     while(i <= N){
10.         int j =1;
11.         while(j <= N-i+1){
12.             cout << j;
13.             j++;
14.         }
15.         int stars = 1;
16.         while(stars <= 2*(i-1)){
17.             cout << " ";
18.             stars ++;
19.         }
20.         j = N-i+1;
21.         while(j >= 1){
22.             cout << j;
23.             j--;
24.         }
25.         cout << endl;
26.         i++;
27.     }
28. }
29. }
```

Q7 : Second Largest

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Take input a stream of n integer elements, find the second largest element present.

The given elements can contain duplicate elements as well. If only 0 or 1 element is given, the second largest should be INT_MIN (- 2³¹).

Input format :

Line 1 : Total number of elements (n)

Line 2 : N elements (separated by space)

Sample Input 1:

```
4
3 9 0 9
```

Sample Output 1:

```
3
```

Sample Input 2 :

```
2
4 4
```

Sample Output 2:

```
-2147483648
```

Sample Output Explanation:

Since both the elements are equal here, hence second largest element is INT_MIN i.e. (-2³¹)

```
1. #include<iostream>
2. using namespace std;
3. #include <climits>
4. int main(){
5.
6.     // Write your code here
7.     int N;
8.     long int min = -2147483648;
9.     cin >> N;
10.    int a[N+1];
11.    for(int i =1; i<= N; i++){
12.        cin >> a[i];
13.    }
14.    int fl = a[1];
15.    int sl = min;
16.    int count = 0;
17.    if(N == 2 && a[1] == a[2]){
18.        cout << min;
19.    }
20.    else if(N == 0 || N == 1){
21.        cout << min;
22.    }
23.    else if(N >= 2){
24.        for (int i =1; i <= N; i ++)
```

```
25.     {
26.         if(a[i]> fl)
27.         {
28.             sl = fl;
29.             fl = a[i];
30.         }
31.         else if(a[i] > sl&&a[i]!=fl)//
32.         {
33.             sl = a[i];
34.         }
35.
36.     }
37.     cout<<sl;
38.
39. }
40. }
```