

CodeWise

Introduction: Why should college students have all the fun? School students of all ages now have a platform to showcase their coding prowess.

About the Event:

The event will consist of only one round. It will be comprising of two sections-

Section 1:

- a. Will consist of MCQ type questions.
- b. Either will be pen and paper based or google form based
- c. To test one's basic knowledge of basic computer skills, fundamentals of OOP, understanding of programming languages like Java and C++ and a few related domains.
- d. Questions will mostly be output-based, finding out errors and simple MCQ's.

• Section 2:

- a. The second section will be an **onsite coding event**.
- b. The participants will have to code on the available platforms in either of the mentioned languages- Java, C++ or Python.
- c. The time taken and the number of problems properly solved will be taken into account while judging the top performers of this section.
- d. The final evaluation of the top performers will entirely depend on the performance of the participants in both the rounds.

A few sample questions are provided below.

Examples:

Section 1: (MCQ Questions)

- 1. The OOP Principles are:
 - a. Encapsulation
 - b. Inheritance
 - c. Abstraction
 - d. Polymorphism
 - e. All of these



- 2. The range of byte data type in Java is:
 - a. -32768 to 32767
 - b. -128 to 127
 - c. 0 to 255
 - d. None of these
- 3. What will be the output of the code snippet:

```
1 public class HelloWorld{
2
3 public static void main(String []args){
4    int a=6;
5    System.out.println(a++ + ++a);
6    }
7 }
```

- a. 11
- b. 12
- c. 13
- d. 14

Section 2: (Coding Questions)

Write a program to print the pattern according to the value n, given as input by the user.

For n=3, the pattern will be:

1

13

135

Input Format

The input will be a single integer n.

Constraints

1<=n<=10

Output Format

The output will be the pattern printed according to the value taken as input. The entries in each row should be space separated.



Sample Input

5

Sample Output

1

13

135

1357

13579

Solutions:

Section 1:

- 1. (e) All of these
- 2. (b) -128 to 127
- 3. (d) 14

Section 2:

Java:

Note: Solutions in C++ and Python are also acceptable.

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