

# CRACKATHON

## OVERVIEW:

Crackathon is a full day competition planned during Abhiyantriki 2016. Participants are tested on basic coding and problem solving skills. It is divided into three rounds of increasing complexity. The first two rounds are elimination rounds, whereas the final round is a knockout round. Teams can consist of a maximum of two participants. There will be prizes for the top two teams in the final round, and certificates will be given to all the participants who make it to the final round. Some participants will be invited to the final round on the basis of the pre-event "Code spree" as well.

## RULES:

Crackathon is a team competition consisting of 3 rounds. Each team can have at most 2 members (from the same institute). All teams must qualify through both the previous rounds to reach the third round. The third round will be a ranked contest, where the top ranked team will get the grand prize.

### Elimination Round 1:

The first round is as follows:

The round shall be conducted in two slots. A team can participate in either slot, but not both. In this round, participants will be given a choice of 4 languages, namely C,C++,Java and Python. They must debug and rearrange the code they have been provided as fast as possible, so that the program runs without errors and gives desired output at the end. (Difficulty: Easy)

In Debugging, programs will be provided involving bugs, compilation errors, logical errors, etc.

The contestants have to resolve all the issues with the programs and get the expected output.

In Code Rearrange, the participants will be provided with a jumbled code, i.e correct program with incorrect order of statements, and the participants are expected to re-arrange the given code statements to get the expected output.

Teams that complete both the tasks of round 1 qualify for round two.

Time for each slot: 45mins

Total time for first round: 2 hours

### **Elimination Round 2:**

The second round is as follows:

This round will have only one slot. Only qualifiers of 1st round are allowed to participate. This round will focus on the concepts of code optimisation and different algorithms. This is a slightly tricky round as participants will have to test their coding concepts at an intermediate level.

Failure to solve with led to elimination. (Difficulty: Medium)

Time for 2nd round: 1 hour

### **Final Round:**

The third and final round is as follows:

This will be a 150 minute long coding contest consisting of a range of problems with varying difficulty.

It shall be a purely competitive programming contest. Only the teams that qualify round 2 shall be allowed to participate. The "Code Spree" top performers from Mumbai will be given a direct entry into the final round.

The top three teams will receive certificates and cash prizes. The rest of the teams which reach the final round shall get certificates.

This round will be conducted on CodeChef. There will be about 6 problem statements for which the teams had to design a program in C, C++, Python or Java. The problems will involve discrete maths and algorithmic knowledge. (Difficulty: Hard)

Time for final round: 2.5 hours



## NOTE:

1. The competition will be a team event. Each team can consist of either 1 or 2 members.
2. Only registered teams are allowed to participate.
3. The decision regarding results by CodeCell team will be final.
4. If a team fails to report on time, it will be disqualified.
5. A team can participate in a round only once.

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