

# Bug Hunt - Rule Book

## 1. Event Overview:

"Bug Hunt" is a thrilling, three-round competition designed to test participants' problem-solving skills, logical reasoning, and coding expertise. The competition consists of:

1. **Error Solving & Debugging Round** - Multiple Choice Questions (MCQs) based on identifying errors and debugging code snippets.
2. **Syntax & Logic Round** - Participants will be given programming problems where they need to write the logic to solve the given questions.
3. **Reverse Coding Round** - Participants analyze given outputs and determine the correct code to produce them.

## 2. Eligibility Criteria:

- Participants compete in teams of **two** members.

## 3. Event Rounds & Rules:

### Round 1: Error Solving & Debugging Challenge

- Format: Multiple-choice questions (MCQs)
- Topics: Identifying syntax errors, logical errors, and debugging code snippets.
- Time Limit: **40 minutes**
- **Top 40 teams** of participants will proceed to the next round.

### Round 2: Syntax & Logic Challenge

- Format: Coding-based questions
- Topics: Writing logic for given problem statements, syntax correction, and implementation strategies.
- Time Limit: **30 minutes**
- **Top 20 teams** of participants will qualify for the final round.

### Round 3: Reverse Coding Challenge

- Participants will be given the output of a program, and they must determine the correct code to generate it.
- Allowed Programming Languages: C, C++, Java, Python
- Time Limit: **45 minutes**
- Scoring Criteria:
  - **Accuracy**: Code must generate the exact given output.
  - **Efficiency**: Optimized and well-structured code gets bonus points.

The top teams with the highest score wins the competition.

#### 4. General Rules & Regulations:

- The use of external references, discussion forums, or online help is strictly prohibited.
- Any **plagiarism, misconduct, or cheating** will lead to immediate disqualification.
- Judges' decisions will be **final and binding** in all scenarios.