notice IOI 2023 Day 1 Tasks English (ISC)

Notice

For all tasks:

- Time and memory limits are available in the "Overview" page in the contest system.
- There is an attachment package that you can download from the contest system, containing sample graders, sample implementations, example test cases, and compile and run scripts.
- Each task has a subtask with index 0 which is worth 0 points. The test cases for this subtask are the same as the sample test cases in the downloadable attachment.
- You may make up to 50 submissions for each task, and you have to submit exactly one file in each submission.
- When testing a program with the sample grader, your input should match the format and constraints from the task statement, otherwise, unspecified behaviors may occur. Every two consecutive tokens on a line are separated by a single space, unless another format is explicitly specified.
- When you test your code on your local machine, we recommend you to use the scripts from the attachment packages. Please note that we use the -std=gnu++17 compiler option.
- If you are unable to submit to CMS, you can use the ioisubmit tool to store your code for evaluation after the end of the contest.
 - Run the following command from the directory containing <source_file> the file that you want to submit: ioisubmit <task_shortname> <source_file>
 - Ask a committee member to take a picture of the output of ioisubmit. Your submission will be rejected unless this step was done.
 - Your submission will only be considered if it is accompanied by an appeal from your Team Leader.

Convention

The task statements specify signatures using generic type names bool, int, int64, int[] (array), and int[][] (array of arrays).

In C++, the graders use appropriate data types or implementations, as listed below

| bool | int | int64 | int[] |
|------|-----|-----------|-------------------------|
| bool | int | long long | std::vector <int></int> |

| int[][] | length of array a |
|---|-------------------|
| std::vector <std::vector<int>></std::vector<int> | a.size() |