

Implementation Notice

You can download a zipped attachment package of each task from CMS. For implementation details and sample graders, see the files in the zip file.

For output-only tasks:

- The attachment package contains input test cases. Each test case is a separate subtask.
- You may submit multiple output files as a zip file. For this purpose, your output files should be named output_??.txt, where ?? is the test case number (e.g., output_03.txt). You can zip multiple files using the following command: zip output.zip output_*.txt
- You may make up to 50 submissions for output-only tasks. In each submission, you may submit the output files for any subset of the test cases.

For other tasks:

- For each task, you have to submit exactly one file.
- For each task, you may make up to 50 submissions.
- Your submissions must not read from the standard input, print to the standard output, or interact with any other file. However, they may output to the standard error stream.
- Submitted file should implement the procedures and/or functions described in the task statement using the signatures provided in the sample implementations.
- You are free to implement other procedures and/or functions.

Conventions

In each of the supported programming languages, the following data types are used. For details on data types, etc. see the sample implementations.

Language	int	int64	int[]	length of array a	string
C++	int	long long	<pre>std::vector<int></int></pre>	a.size()	std::string
Pascal	longint	int64	array of longint	length(a)	ansistring
Java	int	long	int[]	a.length	String

Limits

Task	Title	Time Limit	Memory Limit
bubblesort2	Bubble Sort 2	5.0 sec	537 MB
road_service	Road Service		
timecard	Timecard	1.0 sec	268 MB
xylophone	Xylophone	2.0 sec	268 MB

• Road Service is an output-only task.