International Olympiad in Informatics 2016



12-19th August 2016 Kazan, Russia day2 notice

notice Country: ISC

Implementation Notice

- You have to submit exactly one file (file name given in the problem statement).
- This file implements the subprograms described in the task statement using signatures provided in the sample implementation.
- These subprograms must behave as described in the task statement.
- You are free to implement other subprograms (functions, procedures, methods).
- Your submissions must not interact in any way with standard input/output stream, nor with any other file. In particular, if your program outputs anything to standard output stream, its grading outcome on this test will be SV (Security Violation). You may output anything to standard error stream.

Conventions

The task statements and the Implementation details sections use some generic type names, in particular:

- the name array and the corresponding type int[]
- the type int64
- the type string
- the type boolean

In each of the supported programming languages the graders use the appropriate data types from that language, as listed below:

Language	array	int64	string	boolean
C++	std::vector <int></int>	long long	std::string	bool
С	int*	long long	char*	int
Pascal	array of longint	int64	string	boolean
Java	int[]	long	String	boolean

Limits

Problem	Time Limit	Memory Limit	
Paint By Numbers	2 seconds	2 GB	
Unscrambling a Messy Bug	2 seconds	2 GB	
Aliens	2 seconds	2 GB	