DOMjudge - Team Interface

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Outline

- System's overview
 - Introduction
 - Use cases
 - Public scoreboard
- Team interface
 - View problems, scores and submissions
 - Implement solutions
 - Submit solutions
 - View the result of submissions
 - Judging process



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Introduction

- DOMjudge is an automated judge system to run programming contests.
- It has a mechanism to submit problem solutions, have them judged fully automatically and provides (web)interfaces for teams, the jury and the general public.
- Here, we give some basic notions about DOMjudge team's interface.
- For more informations please visit DOMjudge's home page at http://www.domjudge.org



Use cases

ACTIONS \ USERS	Public	Team	Jury
Show scoreboard	✓	√	✓
Submit solutions	X	✓	X
Show submissions	X	Χ	✓
Set contests	X	X	✓
Manage problems/teams/submissions	X	X	✓
Verify judgements	X	X	✓

Public scoreboard



Sun 26 Jun 2011 13:22:51 CEST

Scoreboard NWERC 2010 contest

starts: 10:45 - ends: 15:45 (frozen since 14:45)

#	AFFIL.	ТЕАМ	SCORE	A O	в	c O	D O	E O	F 🔵	G 🔴	н	1 •	J 🔵
1	0	testteam	10 0	1 (0 + 0)	1 (0 + 0)	1 (0 + 0)	1 (0 + 0)	1 (0 + 0)	1 (0 + 0)	1 (0 + 0)	1 (0 + 0)	1 (0 +	1 (0 + 0)
2	FAU	deFAUlt	8 795	1 (0 + 0)	1 (158 + 0)	3 (84 + 40)	0	1 (5 + 0)	1 (118 + 0)	1 (194 + 0)	1 (44 + 0)	2	3 (112 + 40)
3	ин 🛨	Bubble Sorters	7 614	1 (3 + 0)	0	2 (0 + 20)	5	1 (40 + 0)	2 (99 + 20)	5 (211 + 80)	1 (0 + 0)	2	3 (101 + 40)
4	LE	Johan's Angels	7 912	1 (69 + 0)	1 (96 + 0)	3 (24 + 40)	0	2 (79 + 20)	0	4 (196 + 60)	1 (57 + 0)	0	3 (231 + 40)
5	UKA	Karlsruhe Immigrant Team	6 461	2 (12 + 20)	1 (75 + 0)	2 (25 + 20)	0	1 (81 + 0)	1 (185 + 0)	1	1 (43 + 0)	0	0
6	LE	Geen Commentaar	6 485	3 (43 + 40)	1 (224 + 0)	1 (0 + 0)	0	1 (35 + 0)	0	0	1 (1 + 0)	0	2 (122 + 20)
7	TRIN	Electric Monks	6 654	1 (8 + 0)	1 (133 + 0)	1 (58 + 0)	0	3 (96 + 40)	1 (237 + 0)	0	1 (82 + 0)	0	13
8	FAU	segFAUlt	6 729	1 (83 + 0)	0	3 (46 + 40)	0	1 (96 + 0)	1 (223 + 0)	0	1 (65 + 0)	0	3 (136 + 40)
9	UR	Blamage à Trois	6 776	4 (140 + 60)	1 (222 + 0)	1 (37 + 0)	0	1 (84 + 0)	0	0	2 (61 + 20)	0	1 (152 + 0)
10	UL =	Luebeck 2	5 372	1 (29 + 0)	1 (162 + 0)	2 (7 + 20)	0	1 (64 + 0)	0	0	1 (90 + 0)	0	6
11	LU	We're coders, but that's ok	5 520	2 (0 + 20)	0	2 (56 + 20)	0	2 (166 + 20)	1 (118 +	0	2 (100 + 20)	0	2
12	KU	Lambdabamserne	5 630	1 (0 + 0)	3 (195 + 40)	4 (68 + 60)	0	3 (190 + 40)	0	0	1 (37 + 0)	0	0
13	UKA 🚾	There is no I in KIT	5 860	1 (51 + 0)	0	2 (140 + 20)	0	3 (226 + 40)	1 (158 + 0)	0	4 (165 + 60)	0	0
14	LIKA	KIT Reserve	5 883	6 (160 +	0	6 (121 +	0	1 (110 +	1 (238 +	0	1 (54 +	0	0



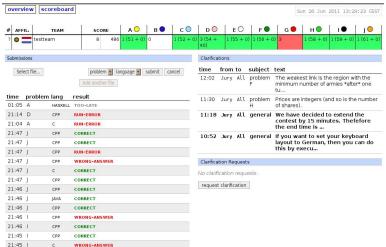
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View problems, scores and submissions



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Implement solutions

Reading and writing:

- Solutions have to read all input from "standard in" and write all output to "standard out" (also known as console)
- You will never have to open (other) files
- We strongly recommend to comply exactly with problem's indications!!!

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Example

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"Hello" problem: the first line of the input contains the number of testcases. Then each testcase consists of a line containing a name (a single word) of at most 99 characters. For each testcase output the string "Hello <name>!" on a separate line.

Sample input and output:

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Input	Output				
3	Hello world!				
world	Hello Jan!				
Jan	Hello Paul!				
Paul					



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3	Hello world!
world	Hello Jan!
Jan	Hello Paul!
Paul	

```
#include <iostream>
#include <string>
using namespace std;
int main()
{
    int ntests;
    string name;
    cin >> ntests;
    for(int i = 0; i < ntests; i++) {
        cin >> name;
        cout << "Hello " << name << "!" << endl;
}
    return 0;
}</pre>
```

View problems, scores and submissions Implement solutions
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Submit solutions

How can we do it?

- Solutions can be submitted from the web interface
- In the left column click Sfoglia... to select the file for submission
- Filenames must start with an alphanumerical character and may contain only alphanumerical characters and "+.-_"
- After submission, an error message will be diplayed if something went wrong



View the result of submissions

- The left column of your team web page shows an overview of your submissions
- It contains all relevant informations: submission time, programming language, problem and status

Possible results:

- CORRECT
- COMPILER-ERROR
- TIMELIMIT
- RUN-ERROR

- NO-OUTPUT
- WRONG-ANSWER
- TOO-LATE

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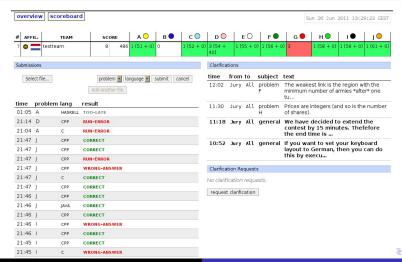
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Judging process

3-phases process:

Submitting solutions Compilation Testing

P.S. There are some restrictions to which all submissions are subjected: compile time source size, memory, number of processes



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