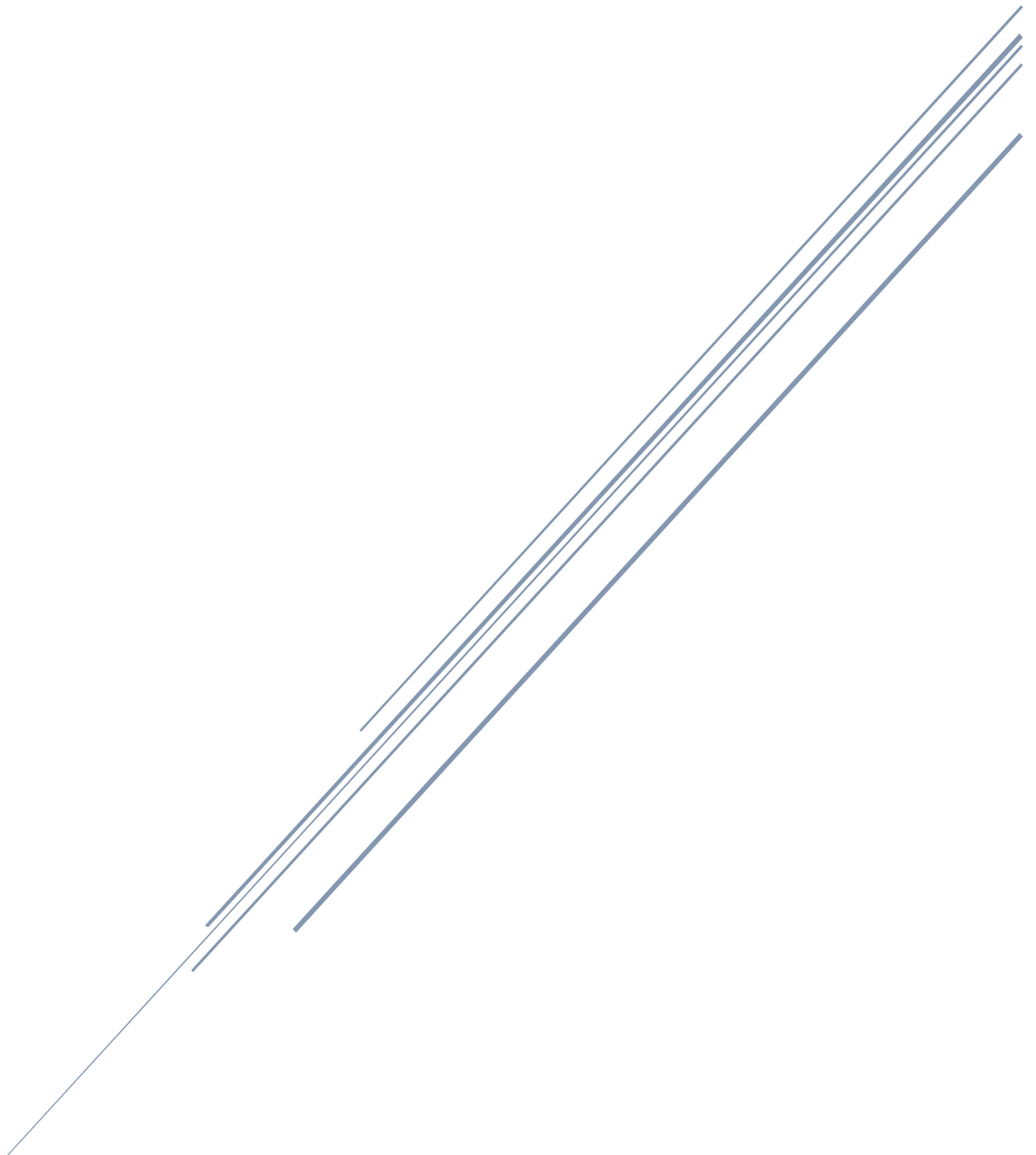


INTRODUCTION TO JUTGE.ORG

The Virtual Learning Environment for Computer Programming.



Universitat Politècnica de Catalunya
Approaches to Machine Translation

Index

Acknowledgements.....	2
What is Jutge?	2
Why do I need Jutge?	2
First contact with Canvas integration of Jutge.....	3
Statement.....	4
Submit	4
Submissions.....	5
Appendix:	7
Verdicts	7

Acknowledgements

The Approaches to Machine Translation Team wants to explicitly thank the support and help from the Jutge team. We are especially grateful to [Jordi Petit](#) for his enthusiasm, he really has contributed to make the assignments evaluation of this course possible.

What is Jutge?

Jutge.org is an education online programming judge where students can try to about 1500 graded problems using 20 different programming languages.

Jutge allows to get instant feedback on the solutions that students submit. Moreover, Jutge provide a lot of information about this feedback, giving detailed verdicts of the execution, using exhaustive data sets run with time, memory and security restrictions.

Why do I need Jutge?

For the features described above, together with the point that Jutge was created by two full professors (Jordi Petit and Salvador Roura) at Polytechnic University of Catalonia, Jutge will correct your Programming Assignments in Approaches to Machine Translation.

First contact with Canvas integration of Jutge

From this point, we will use the “Hello World!” sample problem just to get an idea of your interaction with Jutge via mooc.upc.edu.

Every time you open a programming assignment, a page similar to the following will be shown:

The screenshot shows the Jutge assignment page for 'Hello World!'. The page has a header with the UPC and MOOC logos, and a navigation bar with 'Courses', 'Grades', and 'Calendar'. The left sidebar contains links for 'Home', 'Announcements', 'Discussions', 'Grades', 'Syllabus', and 'Modules'. The main content area is titled 'Hello World!' and has tabs for 'Statement', 'Submit', and 'Submissions'. The 'Statement' tab is active, showing the problem files (TGZ and ZIP), the statement text, and public data sets. The statement text says: 'This is your first program in Python. You only have to output `Hello World!`'. There are two public data sets, both with the same input and output. The input is 'Input does not matter' and the output is 'Hello World!'. At the bottom, there is an 'Information' section with the author 'Oriol Torillas' and the language 'English'.

UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

MOOC UPC

Courses ▾ Grades Calendar

AMT

Home

Announcements

Discussions

Grades

Syllabus

Modules

Hello World!

Statement Submit Submissions

Statement

Problem files

TGZ ZIP

Statement

This is your first program in Python.
You only have to output `Hello World!`

Public data sets

Data set 1

Input

Input does not matter

Output

Hello World!

Data set 2

Input

Really! Input does not matter

Output

Hello World!

Information

Author: Oriol Torillas
Language: English

Jutge.org



The Virtual Learning Environment for Computer Programming

As you can observe in the screenshot above, there are 3 main sections in the Canvas integration of Judge.org.

[Statement](#)

In this section, there is the static information about the assignment. For instance, there are first the problem files that you may need in order to accomplish the given problem. Files are available to download in two formats: tgz and zip.

[Submit](#)

Hello World!

[Statement](#) [Submit](#) [Submissions](#)

Submit

Submit your solution

Source file

Browse...

Submit

[Judge.org](#)

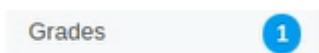


The Virtual Learning Environment for Computer Programming

This second section is the most valuable for students, it is the tab where they can submit their solutions. Submission instructions will be clarified at the statement, but generally, the submission consists on one single file.

In this example, our file to submit will be some Python extension file, which contains the problem solution.

When you submit a file, a message will appear to clarify if the file was submitted or not. Your submitted file will be corrected in background and, after it has been successfully corrected, you will see a notification at Grades, as the following picture shows:



Submissions

In this last section, you have a submission record. The intention of this tab is to analyze in detail your previous submissions.

Hello World!

[Statement](#)[Submit](#)[Submissions](#)

Submissions

Overall



Best score: 10

Average score: 5

Number of submissions: 2

Details

Submission	Grade	Verdict	Compiler	Time
S001	0	CE ⓘ	Python	2014-09-20 13:39
S002	10	AC ⓘ	Python	2014-09-20 14:00

Jutge.org



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In this tab, there are two panels that show different information.

The first panel shows a summary of all submissions: which is your grade at this moment, how many submissions you have made.

The second panel is a table that gives a summary of each submission. The first column of the table is the submission number, the second one is the status of the submission, the third column

is the grade of that submission, the fourth one is the verdict of the submission¹ and the last column is the timestamp (timezone: CET) that the submission was received.

¹ Verdicts are described at the Appendix Section of this document, as well as there is a Help button in the submission table, which will remind you the different verdicts.

Appendix:

Verdicts

Accepted



Acronym: AC

Meaning: Your program seems correct. That is, your program did not crash with any test case (either public or private), it was fast enough compared to the Judge's solution, and its output for every case always matched the output of the Judge's solution. For most problems, the match must be strict, although a few statements concede some flexibility.

Wrong Answer



Acronym: WA ()

Meaning: Your program is not correct. Although your program did not crash with any test case and it was fast enough compared to the Judge's solution, at least one of its outputs for some test case did not match the output of the Judge's solution. The mismatches considered here are significant.

Execution Error



Acronym: EE ()

Meaning: Either your program was aborted by the Judge, or your program crashed. In the former case, for at least one test case your program is too slow, or perhaps it would never stop. The most common reasons for the latter case are trying to access an invalid memory reference, using too much memory (the recursive stack included), floating point exceptions, and printing too much output.

Pending Submission



Acronym: Pending ()

Meaning: The Judge has not yet fully analyzed your program. Either your submission is currently being analyzed, or it is waiting in the Judge's queue, or the Judge's queue is down. In the first and second case, just wait for a moment and your program will be judged. Sorry if it is the third case.

Internal Error



Acronym: IE ()

Meaning: The Judge had an unexpected internal error caused by a bug. This should never happen, and it is not your fault in anyway. We will try to arrange this problems as fast as possible. You do not need to contact us. Sorry.