(https://profile.intra.42.fr)

SCALE FOR PROJECT FT_TURING (/PROJECTS/FT_TURING)

Introduction

For the good of this evaluation, we ask you to:

- Stay mannerly, polite, respectful and constructive dunring this evaluation. The trust between you and the 42 community depends on it.
- Bring out to the graded student (or team) any mistake she or he might did.
- Accept that there might be differences of interpretation of the subject or the rules between you and the graded student (or team). Stay open minded and grade as honnestly as possible.

Guidelines

- You must grade only what is present and the graded student's (or team) repository.

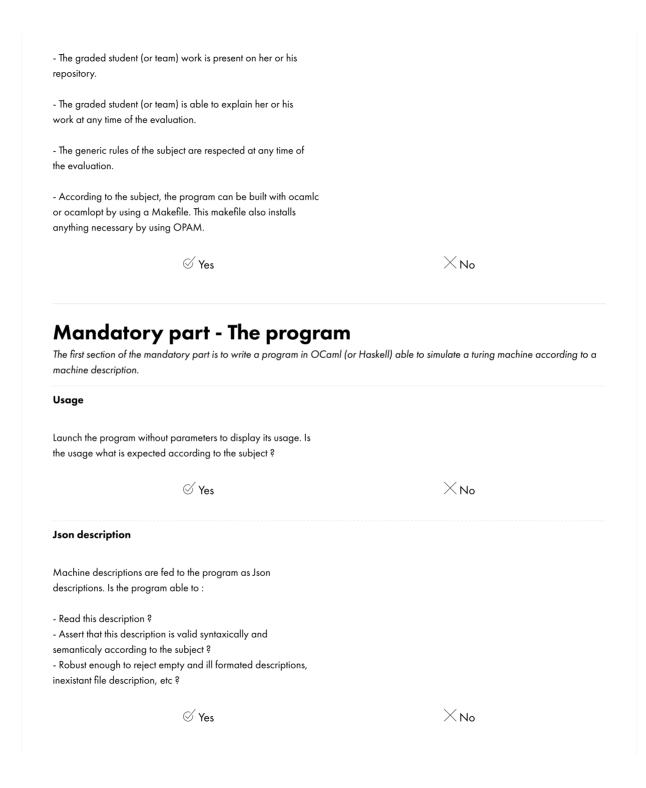
Attachments

Subject (https://cdn.intra.42.fr/pdf/pdf/3708/ft_turing.en.pdf)

Preliminaries

This section is dedicated to setup the evaluation and to test the prerequisits. It doesn't rewards points, but if something is wrong at this step or at any point of the evaluation, the grade is 0, and an approriate flag might be checked if needed.

Respect of the rules



Execution

Test if the program is able to execute the machine given in the Json description on the input given as a parameter to the program. You must ensure that:

- The machine computes the expected result, including if that result is the machine being blocked. In that case a correct error handling is expected.
- The program displays at least the state of the tape for each transition. Thus it is easier to observe the behaviour of the machine. If the states of the tape are logged into a file to free display room on the standard output to displays a dynamic observation of the tape by using the char '\r', give the points.



 \times No

Mandatory part - The 5 machine descriptions

The second section of the mandatory part is to write 5 machine descriptions that the program can simuate.

Unary addition

A machine able to compute an unary addition.

Test the machine with different valid and invalid inputs. Does the machine compute the good result or report an error consitently?



 \times No

Palindrome

A machine able to detect a palindrome.

Does the machine write a 'n' or a 'y' on the tape before halting, and is this result always consistent with the input?





0^n1^n	
A machine able to decide if the input is a word of the language 0^n1^n. For instance the words 000111 or 0000011111.	
Does the machine write a 'n' or a 'y' on the tape before halting, and is this result always consistent with the input ?	
⊗ Yes	imesNo
0^2n	
A machine able to decide if the input is a word of the language 0^2n. For instance the words 00 or 0000, but not the words 000 or 00000.	
Does the machine write a 'n' or a 'y' on the tape before halting, and is this result always consistent with the input ?	
	imesNo
Simulation of simulation	
A machine able to simulate the first machine 'unary_addition'. The simulated machine's alphabet, states, transitions and input ARE the input of the simulating machine, encoded as the group has seen fit.	
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Is the simulated machine's result always consistent with its input ?	

Bonus part

The bonus part is accessible if and only if the mandatory part is completed and perfect. I know you like free bonuses, but for this project, going beyond the mandatory part means dealing with time complexity.

