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# SCALE FOR PROJECT PISCINE OCAML (/PROJECTS/PISCINE-OCAML) / DAY 01 (/PROJECTS/PISCINE-OCAML-DAY-01)

### Introduction

For the sake 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 have done.
- 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 honestly as possible.

### **Guidelines**

- You must grade only what is present and the graded student's (or team) repository. As such, any non-tested feature is a non-functional feature.
- You must stop grading at the first failed exercice, but you are encouraged to continue testing and discussing the following exercices.

## **Attachments**

Subject (https://cdn.intra.42.fr/pdf/pdf/5369/d01.en.pdf)

### **Preliminaries**

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

#### Respect of the rules

- The graded student (or team)'s work is present on her or his repository.
- The graded student (or team) is able to explain her or his work at any time of the evaluation.
- The general rules and the possible day-specific rules are respected at any time of the evaluation.



 $\times$ No

## OCaml pool d01

- For each exercice, you must compile the exercice using ocamlopt and run the generated executable. If the compilation fails or warns, or an exception is thrown at runtime, the exercise is failed. - Remember that if the student's tests cannot prove that his exercise is working properly, he cannot earn points for it. - Remember to check function names, types, behaviours and outputs. - More than ONE let-definition (other than the let ()) means the exercise is failed. No questions asked.

#### ex00: repeat\_x

The function has to be tested at least with:

a negative value,

zero,

a positive value.



 $\times$ No

#### ex01: repeat\_string

The following features have to be tested:

Negative value,

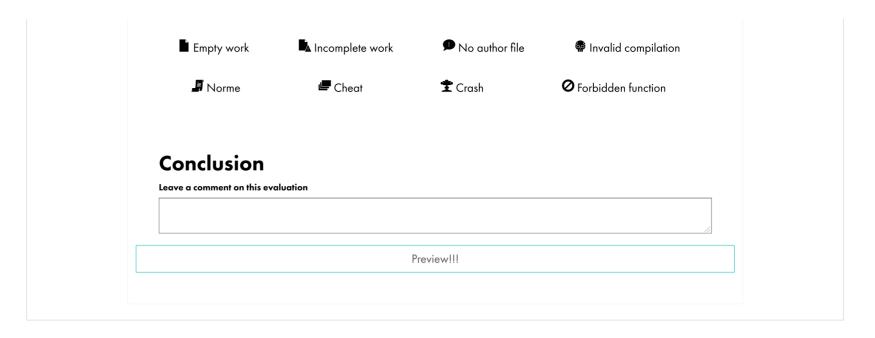
Zero,

Positive value without specifying a string,

Positive value and specifying a string.

⊗ Yes	×No	
ex02: ackermann		
The function has to be tested at least with a negative number and another case with both positive arguments. For every test, check the results match exactly. (Results table available on Wikipedia).		
∀es	×N₀	
ex03: tak		
There must be at least 3 tests. The execution time has to be near-instantaneous (because the tak function is tail-recursive).		
✓ Yes	imesNo	
ex04: fibonacci		
The function has to be at least tested with: A negative value, A positive value (with results matching the reference on Wikipedia)		
The student must be able to prove that his function is tail-recursive and runs in linear time.		
✓ Yes	imesNo	
ex05: hfs_m & hfs_f		
Both functions must be tested with at least a negative value and a positive value. For every test, check that the results match the reference from Wikipedia.		
⊗ Yes	imesNo	
ex06: iter		

	✓ Yes	×N₀	
ex07: converges			
	ith at least a case where it should return uld return false. Of course, all the tested		
	✓ Yes	imesNo	
ex08: ft_sum			
	least with a normal case and a lower bound (for which the function should return nan).		
The student must be able to pr and runs in linear time.	ove that his function is tail-recursive		
	∀Yes	ΧNο	
ex09: leibniz_pi			
	ested with a negative and a positive		
This function must at least be to delta.	ested with a negative and a positive rove that his function is tail-recursive		
This function must at least be to delta. The student must be able to pr		×No	



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