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SCALE FOR PROJECT PISCINE OCAML (/PROJECTS/PISCINE-OCAML) / DAY 09 (/PROJECTS/PISCINE-OCAML-DAY-09)

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.
- 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/5865/d09.en.pdf)

Preview!!!

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

- The graded student (or team) 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 piscine D09

- 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 exercice is failed. - Remember to check function names, types, behaviours and outputs.

Ex00, All Along the Watchtower!

Test the Watchtower monoid. It should contain:

- the zero should be 12
- the add and the sub rules must add two hours and use mod 12 to avoid getting out of the type hour (3h + 14h = 17h mod 12h = 5h) also the sub rule must not return a negative number!
- the zero should be 0
- the add and the sub rules must add two hours and use mod 12 to avoid getting out of the type hour (3h + 14h = 17h mod 12h = 5h)

ALL tests MUST be implemented by the student. Again, if something is missing, the feature won't be graded.





Ex01, The "Alan Parson's Project"

Test the Project monoid. It should contain:

- a project type as an alias of string * string * int
- a zero which is ("", "", 0)
- a combine rule that concatenate the first strings, average of ints as int and a status relativ to this average value.
- a fail rule that creates a new project by setting the status to failed.
- a success rule that creates a new project by setting the status to succeed and the grade to 80.

ALL tests MUST be implemented by the student. Again, if something is missing, the feature won't be graded.

✓ Yes

 \times No

Ex02, These aren't the functoids you're looking for

Test the INT and FLOAT monoids. they should contain:

- a type named element that is an alias of int for INT and an alias of float for FLOAT
- a zero 1 for add and sub (0 and 0.0 for INT and FLOAT)
- a zero2 for mul and div (1 and 1.0 for INT and FLOAT)
- 4 rules : add, sub, mul and div implemented (2 pts)

Test the Calc functor that should implement:

- all 4 rules : add, sub, muland div by using element from the Monoid M as parameters and rules form the Monoid M as rules.
- a power function that calculate the power of an M.element by the int power. (Be carefull power x 0 should return M.zero2!)
- a fact function that caculate the factorial of a M.element. Again be carefull, fact M.zero1 and fact M.zero2 should return M.zero2 (3 pts)

ALL tests MUST be implemented by the student for EACH RULE. Again, if something is missing, the feature won't be graded.



Ex03, Try

This monad is simple. It should implement the following functions, with tests to prove their correct behaviour:

- return
- bind
- recover
- filter
- flatten

Don't forget the student must be able to explain his code (and also explain what a monad is). ✓ Yes \times No Ex04, Set This monad should implement the following functions, with tests to prove their correct behaviour: - return - bind - union - inter - diff - filter - foreach - for_all - exists Don't forget the student must be able to explain his code (and also explain what a monad is). ✓ Yes \times No **Ratings** Don't forget to check the flag corresponding to the defense **✓** Ok Empty work Incomplete work No author file nvalid compilation **₽** Norme Cheat T Crash **⊘** Forbidden function **Conclusion**

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