

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


Remember that the quality of the defenses, hence the quality of the of the school on the labor market depends on you. The remote defences during the Covid crisis allows more flexibility so you can progress into your curriculum, but also brings more risks of cheat, injustice, laziness, that will harm everyone's skills development. We do count on your maturity and wisdom during these remote defenses for the benefits of the entire community.

## SCALE FOR PROJECT PISCINE OCAML (/PROJECTS /42CURSUS-PISCINE-OCAML) / DAY 02 (/PROJECTS /42CURSUS-PISCINE-OCAML-DAY-02)

You should evaluate 1 student in this team



Git repository

git@vogosphere.msk.21-school.ru:vogosphere/intra-uuid-7eb066e5-9b5d-4a! 

### Introduction


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

- Stay mannerly, polite, respectful and constructive during 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 honestly 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 exercise, but you are encouraged to continue testing and discussing the following exercises.

### Attachments

 subject.pdf (https://cdn.intra.42.fr/pdf/pdf/27337/en.subject.pdf)

### Preliminaries

**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.

 Yes

 No

## OCaml piscine D02

- For each exercise, you must compile the exercise using `ocamlopt` and run the generated executable. If the compilation fails or warns, or an exception is thrown at runtime, the exercise is failed. - Whether the graded student provided tests or not, you must test her or his work extensively and asses if the work is done or not. - Remember to check function names, TYPES, behaviours and outputs. - Never test overflows for today. - One more time, you HAVE to check the type of the functions since it's essential today

### Ex00, Do you even compress bro?

Test the program with at least the following lists: encode  
["a";"a";"a";"a";"b";"b";"b"] encode [] encode [(3, 2); (3, 2); (4, 3)]

 Yes

 No

### Ex01, Crossover

Test the program with at least the following lists : crossover  
[1;2;3] [1;2;3] crossover ["toto";"tata";"titi"]  
["toto";"tata";"tutu"] crossover ["toto";"tata";"titi"] []  
crossover [] ["toto";"tata";"titi"]

 Yes

 No

### Ex02, Fifty Strings of Gray

Test the Gray sequences generation program with at least the following values : 0, 1, 2, 3, 4 and 5. Also if the student has used the list concatenation operator ( @ ), It's considered as cheating so -42.

 Yes

 No

### Ex03, One and one and one is three

Test the function with the following values. sequence 1 = "1"  
sequence -1 = "" sequence 6 = "312211" sequence 8 = "1113213211"

 Yes

 No

### Ex04, DNA -> Nucleotides

Check the following facts :

- phosphate and deoxyribose types are both string type aliases.
- nucleobase type is a variant composed of A, T, C, G, and None.
- nucleotide type is a record type or a triplet composed of one of every types above (e.g. 1 phosphate, 1 deoxyribose and 1 nucleobase).

Also check the `generate_nucleotide` function. It should return a nucleotide type from a char as a parameter.

☒ Yes

☐ No

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#### Ex05, DNA -> Helix

- Check the function `generate_helix` (1pts)
- Check the function `helix_to_string` (1pts)
- Check the function `complementary_helix` (for example ATCG should output TAGC) (3pts)

Rate it from 0 (failed) through 5 (excellent)



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#### Ex06, DNA -> Messenger RNA

Check the function `generate_rna`. The ATCG helix must produce an UAGC rna.

Yes

No

**Ex07, DNA -> Ribosome**

Check the function `generate_base_triplets`. it should return a nucleotide triplet list from an `rna` as parameter. If the number of nucleotides in the `rna` is not a factor of 3, the triplet should be forced filled with `None` elements (Or anything that can represent the Great Interstellar Void).

Check the `decode_arn` function. It should return a protein (a list of aminoacids) from an element of type `rna` as parameter. Use a couple different `arn` sequences of your choice to test this using the `string_of_protein` function.

Yes

No

**Ex08, DNA -> The Complete Process of Protein Creation**

This one is a gift, check that the function is functioning as intended. Life is amazing isn't it ? For example the parameter "TACTACATCTAC" should output something like `Met-Met-STOP` in the end. Also check that each step is explained thoroughly and clearly outputed. Remember that the decoding function **MUST** stop the process at the first `STOP` occurrence.

Yes

No

## Ratings

**Don't forget to check the flag corresponding to the defense**

Ok

Empty work

No author file

Invalid compilation

Norme

Cheat

Crash

Forbidden function

## Conclusion

**Leave a comment on this evaluation**

**Finish evaluation**

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