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

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/2702/d02.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 D02

- 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. - Whether the graded student provided tests or not, you must test her or his work extensivelly 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?

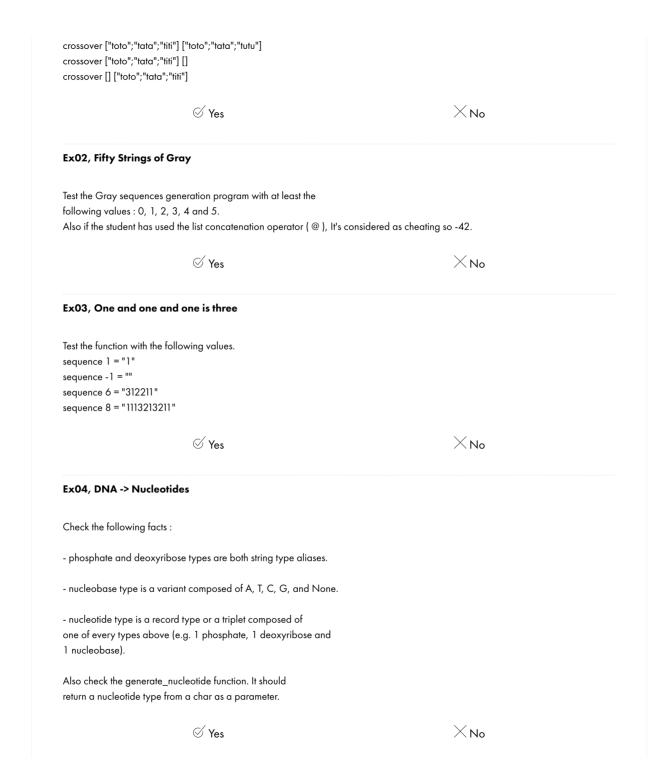
Test the program with at least the following lists: encode ["a";"a";"a";"b";"b";"b"] encode [] encode [(3, 2); (3, 2); (4, 3)]



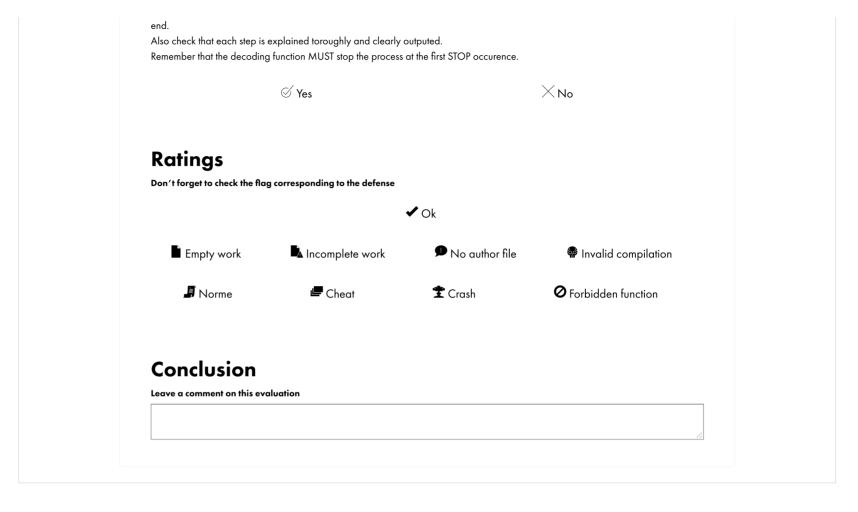
 \times No

Ex01, Crossover

Test the program with at least the following lists: crossover [1;2;3] [1;2;3]



· Check the function generate_helix (1 pts)					
- Check the function helix_to_string (1 pts) - Check the function complemetary_helix (for example ATCG should output TAGC) (3pts) Rate it from 0 (failed) through 5 (excellent)					
			Ex06, DNA -> Messenger RNA		
			Check the function generate_rna. The ATCG helix must produce an UAGC rna.		
⊘ Yes	imesNo				
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	imesNo				
Ex08, DNA -> The Complete Process of Protein Creation					



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