



C Piscine

Rush 01

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Summary: This document is the subject for Rush01 of the C Piscine @ 42.

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Chapter 1

Instructions

- Each member of the group can register the whole group to the evaluation.
- The group MUST be registered to an evaluation.
- Be mindful of the submission procedures indicated at the start of every exercise.
- Moulinette compiles with these flags: `-Wall -Wextra -Werror`, and uses `gcc`.
- If your program doesn't compile, it will be graded 0.
- You must complete the project with the imposed team and show up at the evaluation slot you've selected, with all of your teammates.
- Your project must be done by the time you get to the evaluation. The purpose of evaluation is for you to present and explain any and all details of your work.
- Each member of your group must be fully aware of the inner workings of the project. Should you choose to split the workload, make sure you all understand what everybody has done. During evaluation, you'll be asked questions, and the final grade will be based on the worst explanations.
- Gathering the group for work and evaluation is your responsibility.
- Moulinette relies on `norminette` to check if your files respect the Norm. An exercise containing files that do not respect the Norm will be graded 0.



For this rush, `norminette` is launched without any particular flag!

Chapter 2

Foreword

Here are some cool quotes from some random movies :

1. "Find a truly original idea. It is the only way I will ever distinguish myself. It is the only way I will ever matter."

-A Beautiful Mind

2. "You don't have to be the bad guy. You are the most talented, most interesting, and most extraordinary person in the universe. And you are capable of amazing things. Because you are the Special. And so am I. And so is everyone. The prophecy is made up, but it's also true. It's about all of us. Right now, it's about you. And you... still... can change everything."

-The Lego Movie

3. "Sometimes it is the people who no one imagines anything of who do the things that no one can imagine." -The Imitation Game

4. "There should be no boundaries to human endeavor. We are all different. However bad life may seem, there is always something you can do, and succeed at. While there's life, there is hope."

-The Theory of Everything

5. "Just because someone stumbles and loses their path, doesn't mean they're lost forever."

-X-Men Days of Future Past

6. "Where we're going we don't need roads"

-Back to the future

7. "I'm bad, and that's good. I will never be good, and that's not bad. There's no one I'd rather be than me."

-Wreck-it Ralph

8. "KA-ME-HA-ME-HAAAAAAAAAAAA"

-Various movies

Movie culture won't help for this project even if it's important.

Chapter 3

Subject

Turn-in directory : `ex00/`

Files to turn in: All necessary files

Allowed functions: `write`, `malloc`, `free`

- Your source code will be compiled as follows: `gcc -Wall -Wextra -Werror -o rush-1 *.c`
- Your submission directory must have all files required to compile your program.
- Create a program that resolves a sudoku.
- A valid sudoku has only one possible solution.
- Here's how we'll launch your program :

```
> ./rush-1 line0 line1 line2 line3 line4 line5 line6 line7 line8
```

- LineN represents a characters string of values ranged between '1' and '9' or '.' [for empty boxes].
- Here's an example of intended input/output for a valid sudoku.

```
>./sudoku "9...7...." "2...9..53" ".6..124.." "84...1.9." "5.....8.."
".31..4..." "..37..68." ".9..5.741" "47....." | cat -e
9 1 4 3 7 5 2 6 8$
2 8 7 4 9 6 1 5 3$
3 6 5 8 1 2 4 7 9$
8 4 6 5 2 1 3 9 7$
5 2 9 6 3 7 8 1 4$
7 3 1 9 8 4 5 2 6$
1 5 3 7 4 9 6 8 2$
6 9 8 2 5 3 7 4 1$
4 7 2 1 6 8 9 3 5$
>
```

- In case of error, display "Error" followed by a line break.