

C Piscine

Mini-project 01 : match / nmatch

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Abstract: Second mini-project of the C Piscine @ 42. Contrary to popular belief, this subject does not contain nuts.

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Chapter I

Foreword

Want to stay awake ... Just follow these caffeine-free tips, and you'll learn how to stay awake at work!

Strut your stuff. Studies show that taking a 20 minute walk can boost your energy levels and decrease fatigue.

Involve your ears.
Give your eyes a break.

Stretch it out.

Fuel up with healthy snacks.

When all else fails, use cold water.

Chapter II

Instructions

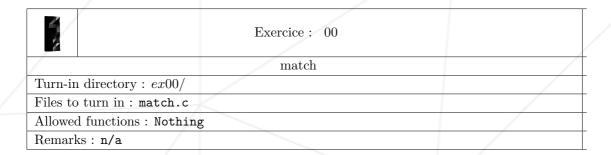
- Only this page will serve as reference: do not trust rumors.
- Watch out! This document could potentially change up to an hour before submission.
- Make sure you have the appropriate permissions on your files and directories.
- You have to follow the submission procedures for all your exercises.
- Your exercises will be checked and graded by your fellow classmates.
- On top of that, your exercises will be checked and graded by a program called Moulinette.
- Moulinette is very meticulous and strict in its evaluation of your work. It is entirely automated and there is no way to negotiate with it. So if you want to avoid bad surprises, be as thorough as you can be.
- Moulinette is not very open-minded. It won't try and understand your code if it doesn't respect the Norm. Moulinette relies on a program called Norminator to check if your files respect the norm. TL;DR: it would be idiotic to submit a piece of work that doesn't pass Norminator's check.
- Using a forbidden function is considered cheating. Cheaters get -42, and this grade is non-negotiable.
- If ft_putchar() is an authorized function, we will compile your code with our ft_putchar.c.
- You'll only have to submit a main() function if we ask for a program.
- These exercises are carefully laid out by order of difficulty from easiest to hardest. We will not take into account a successfully completed harder exercise if an easier one is not perfectly functional.

- Moulinette compiles with these flags: -Wall -Wextra -Werror, and uses gcc.
- If your program doesn't compile, you'll get 0.
- Exercises in shell have to be executed with /bin/sh.
- You <u>cannot</u> leave <u>any</u> additional file in your directory than those specified in the subject.
- Got a question? Ask the neighbor on your right. Otherwise, try the neighbor on your left.
- Your reference guide is called Google / man / the Internet /
- Try checking out the "C Piscine" part of the forum on the intranet.
- Examine the examples thoroughly. They could very well call for details that are not explicitly mentioned in the subject...
- By Odin, by Thor! Use your brain!!!



Norminator must be launched with the -R CheckForbiddenSourceHeader flag. Moulinette will use it too.

Chapter III match

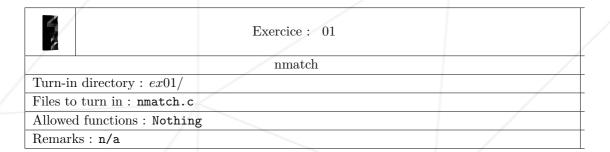


- The purpose of this function is to find out whether two strings match.
- s1 and s2 are considered to match when s1 and s2 are identical.
- If s2 contains a star ('*'), we can replace this star by any characters string (even empty) to make s1 and s2 identical.
- s2 may hold as many stars as you'd like.
- For example, "main.c" and "*.c" match because it is possible to replace '*' by the string "main" to render those two strings identical.
- Here's how it should be prototyped:

int match(char *s1, char *s2);

• It must return 1 if s1 and s2 match, or 0 if they don't.

Chapter IV nmatch



- The aim of this function is to count the amount of times two strings match.
- When we have two or more stars, multiple string combinations can be suitable.
- nmatch calculates the total amount of combinations.
- Here are some examples :
 - o "abcbd" & "*b*" match twice : ("a","cbd") and ("abc", "d")
 - \circ "abc" & "a**" match 3 times : (nothing, "bc"), ("b", "c") and ("bc", nothing)
- Here's how it should be prototyped:

```
int nmatch(char *s1, char *s2);
```

• nmatch returns the number of combinations that match.