

C Piscine

Mini-project O1 : match / nmatch

Staff 42 pedago@42.fr

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

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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.

Instructions

- The exercises are carefully laid out in order of difficulty, from easiest to hardest. An exercise is only graded if all previous ones are correct. In other words: the grading for a day stops at the first mistake.
- Be mindful of the <u>submission procedures</u> indicated at the start of every exercise.
- 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. Be as thorough as possible!
- Moulinette relies on a program called **norminette** to check if your files respect the Norm. An exercise containing files that do not respect the Norm will be graded 0.
- 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.
- Moulinette compiles with these flags: -Wall -Wextra -Werror, and uses gcc.
- If your program doesn't compile, it will be graded 0.
- You should not leave <u>any</u> additional file in your directory than those specified in the subject.



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



The forewords are entirely unrelated to the subjects and can safely be ignored.

match

Turn-in directory : ex00/ Files to turn in: match.c Allowed functions: None

- 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.

nmatch

Turn-in directory : ex01/
Files to turn in: nmatch.c
Allowed functions: None

- 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"]
o "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.