

C Piscine
Rush 00

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Summary: This document is the subject for Rush00 of the C Piscine @ 42.

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Chapter I

Instructions

- Each member of the group can register the whole group to defense.
- The group MUST be registered to defense.
- Any question concerning the subject would complicate the subject.
- You have to follow the submission procedures for all your exercises.
- This subject could change up to an hour before submission.
- 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 the following flags: -Wall -Wextra -Werror; and uses gcc.
- If your program doesn't compile, you'll get 0.
- Rushs exercises have to be carried out by group of 2, 3 or 4.
- The mandatory rush number for your team will follow this rule: Alphabetical Index of the first letter of the team leader's login (from 1 to 26) modulo 5.
- You must therefore do the project with the imposed team and show up at the defense slot you've selected, with <u>all</u> of your teammates.
- You project must be done by the time you get to defense. The purpose of defense 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 works of the project. Should you choose to split the workload, make sure you all understand what everybody's done. During defense, you'll be asked questions, and the final grade will be based on the worst explainations.
- It goes without saying, but gathering the group is your responsibility. You've got all the means to get in contact with your teammates: phone, email, carrier pigeon, spiritism, etc. So don't bother blurping up excuses. Life isn't always fair, that's just the way it is.

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• However, if you've <u>really tried everything</u> one of your teammates remains unreachable: do the project anyway, and we'll try and see what we can do about it during defense. Even if the group leader is missing, you still have access to the submission directory.

- If you want bonus points, you may submit other subjects.
- 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.



Make sure the subject that was originally assigned to your group works $\underline{\text{perfectly}}$ before considering bonuses: If a bonus subject works, but the original one fails the tests, you'll get 0.



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

Chapter II

Foreword

Here's the lyrics of a famous TV show for everyone :

[Verse 1]
I wanna be the very best
Like no one ever was
To catch them is my real test
To train them is my cause

I will travel across the land Searching far and wide Each pokemon to understand The power that's inside

[Chorus]

Pokemon! Gotta catch 'em all! It's you and me I know it's my destiny,
Pokemon! Oh you're my best friend
In a world we must defend
Pokemon! A heart so true
Our courage will pull us through,

You teach me and I'll teach you, Pokemon! Gotta catch'em all

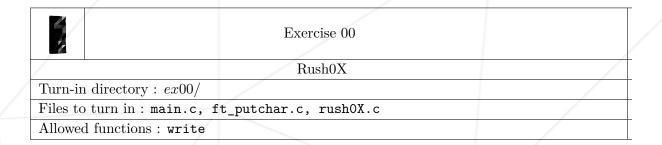
[Chorus]

Every challenge along the way
With courage I will face.
I will battle every day
To claim my rightful place.
Come with me,
The time is right,
There's no better team.
Arm in arm we'll win the fight!
It's always been our dream!

| C Piscine | | Rush 00 |
|-------------------------------|---|-----------------|
| 1 | | |
| | | |
| [Chorus] | | |
| | | |
| I could bet you were sin | ging right now, but it doesn't matter for | the moment. And |
| this subject is not related w | ith Pocket Monster by the way | |
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Chapter III

Main subject



- Files to submit: main.c, ft_putchar.c and your rushOX.c, '0X' represents the rush number. For example rush00.c.
- Example of main.c :

```
int main()
{
    rush(5, 5);
    return (0);
}
```

- You must therefore create the function rush taking two variables of type int as arguments, named respectively x and y.
- Your function rush should display (on-screen) a rectangle of x characters for width, and y characters for length.
- Your main will be modified during defense, to check if you've handled everything you're supposed to. Here's an example of test we'll perform:

```
int main()
{
    rush(123, 42);
    return (0);
}
```

Chapter IV Rush 00

• rush(5,3) should display:

```
$>./a.out
o---o
| |
o---o
$>
```

• rush(5, 1) should display:

```
$>./a.out
o---o
$>
```

• rush(1, 1) should display:

```
$>./a.out
o
$>
```

```
$>./a.out
o
|
|
|
|
|
o
s>
```

C Piscine Rush 00 • rush(4, 4) should display: \$>./a.out 8

Chapter V Rush 01

• rush(5,3) should display:

```
$>./a.out
/***\
* *
\***/
$>
```

• rush(5, 1) should display:

```
$>./a.out
/***\
$>
```

• rush(1, 1) should display:

```
$>./a.out
/
$>
```

• rush(1, 5) should display:

```
$>./a.out
//
*
*
*
*
*
}
```

```
$>./a.out
/**\
* *
* *
\**/
$>
```

Chapter VI Rush 02

• rush(5,3) should display:

```
$>./a.out
ABBBA
B B
CBBBC
$>
```

• rush(5, 1) should display:

```
$>./a.out
ABBBA
$>
```

• rush(1, 1) should display:

```
$>./a.out
A
$>
```

• rush(1, 5) should display:

```
$>./a.out
A
B
B
C
$>
```

```
$>./a.out
ABBA
BBB
BBCBBC
$>
```

Chapter VII Rush 03

• rush(5,3) should display:

```
$>./a.out
ABBBC
B B
ABBBC
$>
```

• rush(5, 1) should display:

```
$>./a.out
ABBBC
$>
```

• rush(1, 1) should display:

```
$>./a.out
A
$>
```

• rush(1, 5) should display:

```
$>./a.out
A
B
B
A
$
```

```
$>./a.out
ABBC
B B
B B
ABBC
$>
```

Chapter VIII Rush 04

• rush(5,3) should display:

```
$>./a.out
ABBBC
B B
CBBBA
$>
```

• rush(5, 1) should display:

```
$>./a.out
ABBBC
$>
```

• rush(1, 1) should display:

```
$>./a.out
A
$>
```

• rush(1, 5) should display:

```
$>./a.out
A
B
B
C
$
```

```
$>./a.out
ABBC
B B
B CBBA
$>
```