C - Pool - Tek1

Assignment 1 - The squares

C Pool Managers
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Contents

Instructions

- The team leader (first login of the line) has to sign up his group for the defense.
- Any request for precisions on a subject will complicate it.
- It is forbidden to modify the sources of your project after 10 AM Sunday.
- The subject may change until one hour before turn-in.
- The assignment exercises are to be carried out by groups of 2.
- Only the team leader's turn-in directory will be collected.
- You will find the list of the imposed groups and your assigned subject in files group_promotion_city.txt.
- You will have to carry out the indicated subject with your imposed partners and to present yourselves at your defense Sunday, at the right time, with all your partners.
- For the defense, the project should be finished. Defenses are used to present and explain your work in the slightest detail.
- Every member of the group should be fully aware of the achieved work. Each member will be questioned, the mark of the group is based on the worst explanations.
- Obviously, you will have to do everything possible to contact your partners: Look at their intranet profile, facebook, etc... No excuse will be accepted in regard to group problems.
- If after have tried everything one of your partners is still unreachable, send an email to your DPR (Regional Education Director) as soon as possible.
- You can optionally carry out several subjects to get a potential bonus.

```
It is absolutely mandatory to have the mandatory subject
perfectly carried out to claim the bonus subjects.
```

- Respect the norm takes time, but is good for you. This way your code will respect the norm since the first written line.
- Work well !

Turn-in details

- Turn-in directory:
  `Piscine_C_colles-Semaine_01`


Hints `Remember it is always better to create your repository at the beginning of the day and to turn-in your work on a regular basis`


Hints `Only the project turned in by your project leader will be picked up`

- Binary name:
  `a.out`
- Your source code will be compiled with the following command:
  `cc *.c`

Subject

- You must implement a program that contains the following `main`:

```
1  int main()
2  {
3    colle(5, 5);
4    return (0);
5  }
```

- You have to write the `colle` function that take in parameter 2 variables of type int respectively named `x` and `y`.
- Your `colle` function shall display a square of `x` characters of width and `y` characters of height on the screen.
- Your `main` will be modified during the defense to change the parameters of the call to the `colle` function.
  - Example:

```
1      int main()
2      {
3        colle(123, 42);
4        return (0);
5      }
```

Subject 01

- colle(5,3) shall display:

```
o---o
|   |
o---o
```

- colle(5, 1) that:

```
o---o
```

- colle(1, 1) that:

```
o
```

- colle(1, 5) that:

```
o
|
|
|
o
```

- colle(4, 4) that:

```
o--o
|  |
|  |
o--o
```

- A test binary is available on the intranet with the subject:
  - Usage:
    `./colle1-1 x y`

Subject 02

- colle(5,3) shall display:

```
/***\
*   *
\***/
```

- colle(5, 1) that:

```
*****
```

- colle(1, 1) that:

```
*
```

- colle(1, 5) that:

```
*
*
*
*
*
```

- colle(4, 4) that:

```
/**\
*  *
*  *
\**/
```

- Test binary available on the intranet with the subject:
  - Usage:
    `./colle1-2 x y`

Subject 03

- colle(5,3) shall display:

```
ABBBA
B   B
CBBBC
```

- colle(5, 1) that:

```
BBBBB
```

- colle(1, 1) that:

```
B
```

- colle(1, 5) that:

```
B
B
B
B
B
```

- colle(4, 4) that:

```
ABBA
B  B
B  B
CBBC
```

- Test binary available on the intranet with the subject:
  - Usage:
    `./colle1-3 x y`

Subject 04

- colle(5,3) shall display:

```
ABBBC
B   B
ABBBC
```

- colle(5, 1) that:

```
BBBBB
```

- colle(1, 1) that:

```
B
```

- colle(1, 5) that:

```
B
B
B
B
B
```

- colle(4, 4) that:

```
ABBC
B  B
B  B
ABBC
```

- Test binary available on the intranet with the subject:
  - Usage:
    `./colle1-4 x y`

Subject 05

- colle(5,3) shall display:

```
ABBBC
B   B
CBBBA
```

- colle(5, 1) that:

```
BBBBB
```

- colle(1, 1) that:

```
B
```

- colle(1, 5) that:

```
B
B
B
B
B
```

- colle(4, 4) ceci:

```
ABBC
B  B
B  B
CBBA
```

- Test binary available on the intranet with the subject:
  - Usage:
    `./colle1-5 x y`