

CS256 — Exercise 3

January 20, 2016

Due: Monday, January 25, 2016 before midnight (30 points)

1 Preparing the Project

1. Go to <https://codebank.xyz> and create a new project named CS256-EX3.
2. On your local machine, from a terminal or git bash navigate to the folder you use for storing CS256 related files and create a new directory to store this exercise. From now on, we'll call this directory the *working directory*.
3. cd in to the working directory and run:

```
$ git init  
$ git remote add origin https://codebank.xyz/username/CS256-EX3.git
```

where `username` is your bronconame or you can clone the empty repository with:

```
$ git clone https://codebank.xyz/username/CS256-EX3.git
```
4. Now, the directory on your machine is a git repository with a reference to the remote repository on <https://codebank.xyz>.

2 Alternating Pattern

2.1 Description

1. Create a file named `Alternate.cpp` in your working directory.
2. This file should contain a C++ program that generates an alternating pattern.
3. Start by asking the user to input a positive integer corresponding to the number of lines that should be printed.
4. For every line, print n spaces then a string of 20 X's where n increases in count from 0 to 50, then decrease again from 50 to 0.

2.2 Sample Output

Here's an example of the pattern for 200 lines:

```
XXXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXXX  
XXXXXXXXXXXXXXXXXXXXX
```

2

4

