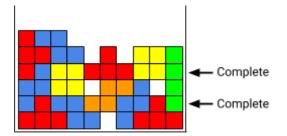
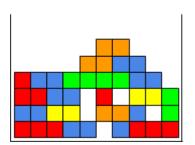
- You have 2 hours to complete the assignment.
- If the code does not compile, the exercise won't be accepted for submission.
- Code is expected to be readable, clean, and optimal.
- A skeleton of the exercise is provided. **Use it! Don't create a new solution.**
- Inside the code, replace "TYPE YOUR NAME HERE" with your complete name.
- When you finish, ZIP the whole folder with a filename called "lastname_name.zip" and upload it to the "Midterm Exam" folder.
 - 1. (3.5 points) You are programming the game Tetris. In the file exercise1.cpp, implement the body of the function countCompleteLines that, given a two-dimensional array representing the board, returns the number of horizontal lines (rows in the array) that contain no empty cells. For example:



In this case, the value returned by the function *countCompleteLines* should be 2.



In this case, the value returned should be 0, as there are no complete lines.

NOTE: If an element in the array equals 1, there is a piece in that cell. Otherwise, if it equals 0, the cell is empty.

2. (3.5 points) In the file *exercise2.cpp*, implement the function named *isPalindrome*. The function receives a single parameter: an array of characters. It must return an integer value: 1 if the word is a palindrome, or 0 otherwise.

NOTE: a word is a palindrome if it is read the same from left to right and from right to left.

Examples:

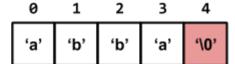
input array: "reconocer" returned value: 1

input array: "palabra" returned value: 0

input array: "abba" returned value: 1

TIP: First compute the length of the string to know which is the index of the last letter (beforehand you don't know its length, but you know that **the last character found in the string will be '\0'**).

Example:



In this example, the length of the string "abba" is 4. Therefore, the last letter 'a' is at index 3. The special character '\0' is at index 4.

3. (3 points) Open the file *exercise3.cpp* and implement the function *sumDivisiblesBy5InRange* that, given two integers *begin* and *end*, computes and returns the addition of all numbers in the range [begin, end] (so both numbers included) which are divisible by 5.

Examples:

A call like **sumDivisiblesBy5InRange(1, 2)** should return **0** because there are no numbers divisibles by 5 between 1 and 2.

A call like **sumDivisiblesBy5InRange(3, 23)** should compute and return the sum of **5 + 10 + 15 + 20**.

A call like sumDivisiblesBy5InRange(-5, 15) should compute and return the sum of -5 + 0 + 5 + 10 + 15.