## LAB 2

## Section 2

## Mar. 1, 2016

Suppose that you have sticks of two colors (red and blue), and you want to place as many sticks as possible over a line of known length.

All red sticks have the same length. Similarly all blue sticks have the same length. The length of a red stick may be different than that of a blue one.

You want to ensure that both of the first and the last sticks are red, and consecutive sticks always alternate in color. The length of the gaps in both ends must be equal.

For example, the following is a correct sequence:



Write an interactive program that prompts and reads;

- 1. The length of a red stick,
- 2. The length of a blue stick,
- 3. The length of the line to be covered.

The program should display the number of red and blue sticks and the length of the gap.

Here is a sample run. User input is in red color.

```
Please enter the length of a red stick: 7
Please enter the length of a blue stick: 5.5
Please enter the length of the line: 50
Number of blue sticks : 3
Number of red sticks : 4
The gap at each end : 2.75
```

After finishing your work, select your folder (e.g. Lab02), then right click and select "Send to" option. Click "Compressed (zipped) folder". Rename your zip file as "Lab02\_Surname\_Name". Note that, your file type is "zip", namely your file name will not be "Lab02\_Surname\_Name.zip". Upload your zip file to Unilica. Note that you must upload your file before 11:40; you cannot upload your file after that time.