

CSCI 136 C++ programming

Lab exercise 5

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- (a) Ask the user to input three integers n , x , and y and store them in appropriate variables.
- (b) Declare an array of floats of size n , and assign the value x to the first element of the array, and the value y to the last element of the array.
- (c) Repeat the following forever:
- pick an element of the array at random different than the first or the last element,
 - change its value to be the average of its left and right neighbors,
 - and print the entire array on one line.

Hint: You can use the following expression to generate a random integer between 1 and $n - 2$:

$$\text{rand()} \% (n - 2) + 1$$

- (d) Observe what happens, try to change n , x , and y .