

Bronx Community College
Department of Mathematics and Computer Science
CSI33 Fall 2019
Programming Assignment 4: worth 20 points
Assigned on November 4, 2019
Due on November 13, 2019

Assignment 4

Write a C++ function `binsearch` that carries out the binary search algorithm on a sorted array of integers. Your function takes as parameters an array of integers (sorted in increasing order), the size of the array, and a target integer to search for. The function returns the index of the target in the array, and returns -1 if the target is not in the array.

The file `main1.txt` on the webpage contains code that generates a specific array of integers in increasing order. (Do not change the code that generates the array.) Add your `binsearch` function to this C++ program. Use your function to search for the elements {39, 47, 208, 288, 427, 685, 676, 972}. Your program should print out each of these elements, and the return value of the function for that element, that is, the index in the array `a` where the element was found, or the integer -1 if the element was not found.

Submit the program file and its output to me by email at sharon.persinger@bcc.cuny.edu by the end of the day on 11/13/2019. Include CSI33 in the subject line of your email.