

University of Massachusetts, Boston
CS240 – Programming in C
Homework Assignment 2
Submission Date: 24 March 2023, 5PM

Instructions:

1. Please write your code and save it as a .c file and take a screenshot of the output of your programs.
2. You must include comments in your code explaining the purpose of each function and the logic behind it.
3. Your homework submission should contain following files in the Gradescope:
<https://www.gradescope.com/courses/510216>
4. Source code for each C program in .c extension.
5. Screenshot of output of each program separately.

Task 1: ASCII value

Write a program to display ASCII value of a character.

Sample Input:

A

Output:

ASCII value of character A is: 65

Task 2: Positive or Negative

Write a program to check whether the given integer is positive or negative.

Sample Output: 0 is neither positive nor negative

Sample Output: -3 is a negative number

Sample Output: 100 is a positive number

Task 3: Sorting

Write a program to arrange numbers in ascending order using array.

Sample Input:

10

5

6

7

8

9

1

23

4
5
3

Output:

1
3
4
5
5
6
7
8
9
23

Task 4: Largest element

Write a program to find the largest element of an Array.

Sample Input:

10
5
6
7
8
9
1
23
4
5
3

Output:

23

Task 5: Calculate Mean

Write a program to calculate the average value of the elements of an Array.

Sample Input:

Enter the size of array: 5

Elements of the array:

34
2
55
100

72

Sample Output:

52.6

Task 6: Array reversal

Write a program to print numbers of an array in reverse order.

Sample Input:

Enter the size of array: 5

Elements of the array:

34

2

55

100

72

Sample Output:

72

100

55

2

34