

UMass Boston CS 240  
Homework 3  
Due on April 10 at 5 PM (EDT)

**Information:**

- Required comment on top of the program file, please fill the following details:
  - Your Name
  - Date when created file
  - How you approached the solution
  - Challenges faced
- Following homework files need to be submitted on Gradescope:  
*The filenames are case sensitive, kindly put all filenames as lowercase.*
  - program1.c – 25 points
  - program2.c – 25 points
  - program3.c – 25 points
  - **readme.txt – 5 points**
    - a. Students worked with:
    - b. Books/Websites consulted:
    - c. Time spent on homework (hours):
- Submit screenshots of the output with your source code.

**Homework programs (3):**

*More instructions are given in the homework program files.*

1. program1.c: Write a C program that takes an array of integers as input from the user and uses pointers to find the maximum and minimum values in the array. The program should print the maximum and minimum values to the console.

Sample input:

Enter the number of elements in the array: 5

Enter the elements of the array: 7 3 9 1 5

Output:

Maximum value: 9

Minimum value: 1

2. program2.c: Write a C program that takes two strings as input from the user and uses pointers to concatenate them into a new string. The program should print the new concatenated string to the console.

Sample input:

Enter the first string: Hello

Enter the second string: world

Output:

Concatenated string: Helloworld

3. program3.c: Write a C program that takes an array of integers as input from the user and uses pointers to reverse the order of the elements in the array. The program should print the reversed array to the console.

Sample input:

Enter the number of elements in the array: 5

Enter the elements of the array: 1 2 3 4 5

Output:

Reversed array: 5 4 3 2 1