

UMass Boston CS 240
Homework 3
Due on October 30 at 5 PM (EST)

Information:

- Homework files uploaded on: <https://cs.umb.edu/~aaditya/hw/03/>.
- Use the above given homework files and update the existing code.
- Required comment on top of the program file, please fill the following details:
 - o Your Name,
 - o Date when created file,
 - o How you approached the solution
 - o Challenges faced
- Following homework files need to be submitted on **Gradescope**:
The filenames are case sensitive, kindly put all filenames as lowercase.
 - o program1.c – 20 points
 - o program2.c – 15 points
 - o program3.c – 20 points
 - o readme.txt – 5 points
 - Students worked with:
 - Books/Websites consulted:
 - Time spent on homework (hours):

Homework programs (3):

More instructions are given in the homework program files.

1. program1.c - C Program to find the name of the Physician by querying by Specialization using structure.

Output:

Enter the number of doctors: 3

Enter the name and specialization of the doctors: Sam dermatologist

harry radiologist

tom cardiologist

Enter the number of queries: 2

Enter the query (1): cardiologist

Result (1): tom

Enter the query (2): radiologist

Result (2): harry

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2. program2.c - C Program to grade the student based on their Aggregate marks.

Output:

Enter marks for subject 1 (out of 100): 90
Enter marks for subject 2 (out of 100): 90
Enter marks for subject 3 (out of 100): 90
Enter marks for subject 4 (out of 100): 90
Enter marks for subject 5 (out of 100): 90
Total Marks = 450
Grade A

3. program3.c - C Program to sort strings in Lexicographic order.

Output:

Enter word (1): aab
Enter word (2): aac
Enter word (3): aaf
Enter word (4): aae
Enter word (5): aaa

In the lexicographical order:

aab
aac
aaf
aae
aaa