

**Total Marks:** 30

**Due Date and Time:** February 23, 2021 6 pm

**No late submission will be permitted.**

**Submission Procedure:** Upload the C program file by the due date and time. The file should be named as specified in the problem statement. Replace ROLLNO with your roll no (all small letters). **Do not upload exe files.**

**Problem 1.** Write a C program called ROLLNO\_string\_to\_num.c that takes as input a decimal number (including sign and fractional part) as a string, converts the string to a number (its decimal equivalent value), and prints the number. The sign and fractional part may or may not be present in the string.

For example:

- If the string is "-986.23", the output should be  
Number in the string is -986.23
- If the string is "120", the output should be  
Number in the string is 120

If the user provided an invalid input, an error message should be printed.

Recommendation:

- Use fgets to take input
- Use switch-case when possible
- Start by first writing out on a piece of paper the logic required to extract each character from the string and how to form a number using these characters.

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