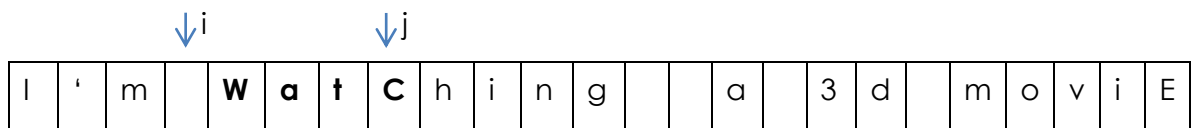


OOP using JAVA – Lab 2

Problem 1

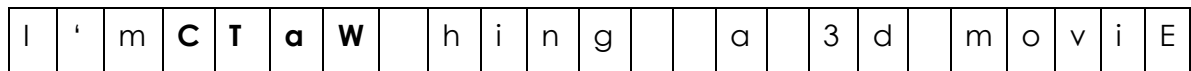
1. Write the function **subreverse** that takes a string **T** and two positions **i** and **j**, and reverses the characters of the string between **i** and **j** both included. Assume that **i** is less than **j**.

Example: if T is



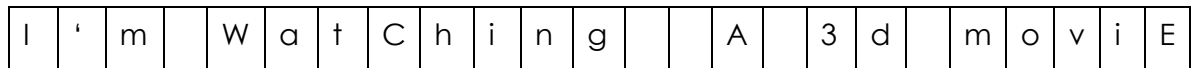
And $i=3, j=7$

After calling the function **subreverse**, T becomes:

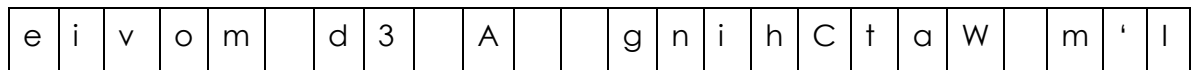


2. Using the function **subreverse**, write a function **reverse** that takes a string T and reverses it.

Example: if T is



After calling the function **reverse**, T becomes:



3. Write a main program that reads a string T of maximum 50 characters, reverse the string T (using the function **reverse**) and prints the resulted string.

Problem 2

Write a program that reads a sentence (as a string) and prints its words in increasing order based on their length. (use only the space character as separator).

Example: if sentence = "Hi My name is Jamil"

The program displays:

5 characters: Jamil

4 characters: name

2 characters: Hi My is