

Problem

Program

## TreeMap - Letter Frequency

Write a Java program to calculate the character frequency in a sentence. The input consist of a single sentence and the output display a graphical chart displaying the frequency of each character by number of asterisk (\*). Display the character in the output in alphabetical order. Compute the frequency of all letters except space.

Use TreeMap to store the characters and frequency since the tree map maintains the entries sorted based on their natural ordering.

Create a main class "Main.java"

Create a class **LetterSequence** and include below methods and attributes,

Include a constructor to get the sentence as the input

Method/Attribute	Details
public TreeMap<Character,Integer> computeFrequency()	Compute the frequency of each character in the sentence and store it in the TreeMap. Return the TreeMap after the computation.
public void displayLetterFrequency(TreeMap<Character,Integer> frequencyMap)	Iterate the tree map and get all the entries and print the information in a graphical view as shown the sample output
private String sentence	Input sentence is stored in this attribute

### Input and Output Format:

Refer sample input and output for formatting specifications.

[All text in bold corresponds to input and the rest corresponds to output]

Sample Input/Output :

Enter the input string

**Refer sample input and output for formatting specifications**

R : \*  
a : \*\*\*\*  
c : \*\*  
d : \*  
e : \*\*\*\*  
f : \*\*\*\*  
g : \*  
i : \*\*\*\*\*  
l : \*  
m : \*\*  
n : \*\*\*\*  
o : \*\*\*\*  
p : \*\*\*\*  
r : \*\*\*  
s : \*\*\*  
t : \*\*\*\*\*  
u : \*\*\*