

//To sort the words in a sentence in alphabetical order

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```
import java.util.*;
public class Sort_Sentences
{
    public static void main(String args[])
    {
        Scanner br = new Scanner(System.in);
        System.out.println("\nEnter the Sentence");
        String sentence = br.nextLine();

        StringTokenizer words = new StringTokenizer(sentence, ".!? ");

        int words_count = words.countTokens();
        String word[] = new String[words_count];

        for(int i = 0; i < words_count; i++)
        {
            if(words.hasMoreTokens())
            {
                word[i] = words.nextToken();
            }
        }

        for(int i = 0; i < words_count; i++)
        {
            for(int j = i+1; j < words_count; j++)
            {
                if(word[i].compareTo(word[j]) > 0)
                {
                    String temp = word[i];
                    word[i] = word[j];
                    word[j] = temp;
                }
            }
        }

        System.out.println("\nLENGTH: "+words_count);
        System.out.println("REARRANGED SENTENCE");
        for(int i = 0; i < words_count; i++)
        {
            System.out.print(word[i]+" ");
        }
    }
}
```

```
}  
}
```

OUTPUT

Enter the Sentence

THIS IS A PROGRAM WRITTEN USING JAVA

LENGTH: 7

REARRANGED SENTENCE

A IS JAVA PROGRAM THIS USING WRITTEN

Enter the Sentence

NECESSITY IS THE MOTHER OF INVENTION

LENGTH: 6

REARRANGED SENTENCE

INVENTION IS MOTHER NECESSITY OF THE