

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 4\_Q2

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

Anu is developing a tool for a conference registration system. Participants submit keywords related to their fields of interest. The organizer wants to sort these keywords alphabetically to generate tags for session grouping.

Write a program that accepts at least five keywords as input arguments and outputs them in sorted alphabetical order.

##### ***Input Format***

The first line of input contains an integer n, representing the number of keywords.

The second line of input contains n space-separated keywords (string).

##### ***Output Format***

The output prints n space separated strings representing the sorted keyword in alphabetical order.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

Blockchain Cloud AI Data Cybersecurity

Output: AI Blockchain Cloud Cybersecurity Data

### **Answer**

```
// You are using Java
import java.util.*;
```

```
public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        // Step 1: Read number of keywords
        int n = sc.nextInt();
        sc.nextLine(); // consume newline

        // Step 2: Read keywords
        String[] keywords = sc.nextLine().split(" ");

        // Step 3: Sort alphabetically (case-sensitive, lexicographic order)
        Arrays.sort(keywords);

        // Step 4: Print sorted keywords
        for (int i = 0; i < n; i++) {
            System.out.print(keywords[i]);
            if (i < n - 1) {
                System.out.print(" ");
            }
        }
    }
}
```

**Status : Correct**

**Marks : 10/10**