Problem Statement

Given an array 'A' of int values of size 'N'. Write a program to print the sorted encrypted numbers in a **List** using the following instructions.

Instructions:

1. Replace the **A[i]** with its equivalent **character,** if A[i] is an **ASCII code.**

2. If **A[i]** is **not an ASCII code** then it should be replaced with a **-1** as the encrypted value.

Note:

1. Before encrypting the numbers in the output list please make sure that the numbers must be sorted.

2. Range of ASCII codes are **65(A) – Z(90)** and **97(a) – 122(z).**

Input:

Read the input from the standard input stream. The first line should be the **size(N)** of the array. The next consecutive lines are the elements(A[i]) of the array. Please make sure that the number of

Input:

Read the input from the standard input stream. The first line should be the **size(N)** of the array. The next consecutive lines are the **elements(A[i])** of the array. Please make sure that the **number of elements** you are providing should match exactly with the **size(N)** of the array. The logic to take the **size(N)** and **elements(A[i])** is already provided to you.

Output:

Using the above input array print an **encrypted list** to the standard output stream using the above said instructions. Refer to the sample input and output table to get more clarification.

Partially implemented EncryptNumbers.java, with the logic to accept the inputs from the keyboard is already given to you.

Note:

- **Please don't alter/change the codes which have already provided.**
- **Whatever class/interface you are adding OR already provided**

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Note:

- **Please don't alter/change the codes which have already provided.**
- **Whatever class/interface you are adding OR already provided should not be 'public'.**

Languages: Java

Sample Input	Sample Output	Explanation
10 9 121 27 90 64 36 78 66 900 2	[-1,-1,-1,-1,-1, B, N, Z, y, -1]	ASCII values are – 121, 90, 78, 66
4 27 4 120 65	[-1,-1, A, x]	ASCII values are – 120 and, 65

Select

Java

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78 66 900 2		
4 27 4 120 65	[-1,-1, A, x]	ASCII values are – 120 and, 65
5 1 4 9 16 27	[-1,-1,-1,-1,-1]	No ASCII values are there
5 66 67 68 119 70	[B, C, D, F, w]	No Non-ASCII values are there

Languages: Java

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Java

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```


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Select language: Java | Select theme: xq-light | Editor Options: A+ A- Reset Undo Redo

```
5  class EncryptNumbers {
6      public static void main(String[] args) {
7          Scanner sc = new Scanner(System.in);
8          int size = sc.nextInt();
9          int[] arr = new int[size];
10         for (int i = 0; i < size; i++) {
11             arr[i] = sc.nextInt();
12         }
13         sc.close();
14                 /*Using the Array 'arr' Implement the logic given in the instructions here*/
15                 /*Convert the same Array 'arr' in to a sorted encrypted List as per the given instruct
16 //Implement your logic here
17         List<String> encryptArr= new ArrayList<>();
18
19         int temp;
20         for(int i=0;i<size;i++){
21             for(int j=1;j<size-i;j++){
22                 if(arr[j-1]>arr[j]){
23                     temp=arr[j-1];
24                     arr[j-1]=arr[j];
25                     arr[j]=temp;
26                 }
27
```

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Select language: Java | Select theme: xq-light | Editor Options: A+ A- Reset Undo Redo

```
17        List<String> encryptArr= new ArrayList<>();
18
19        int temp;
20        for(int i=0;i<size;i++){
21            for(int j=1;j<size-i;j++){
22                if(arr[j-1]>arr[j]){
23                     temp=arr[j-1];
24                    arr[j-1]=arr[j];
25                    arr[j]=temp;
26                }
27
28            }
29
30        }
31        for(int i=0;i<size;i++){
32        if(arr[i]<65 || arr[i]>90 && arr[i]<97 || arr[i]>122){
33                encryptArr.add("-1");
34            }
35            else{
36                int in=arr[i];
37               Character asc= (char)in;
38                encryptArr.add(asc.toString());
39            }
```

son

```
29
30        }
31      for(int i=0;i<size;i++){
32          if(arr[i]<65 || arr[i]>90 && arr[i]<97 || arr[i]>122){
33              encryptArr.add("-1");
34          }
35          else{
36              int in=arr[i];
37             Character asc= (char)in;
38              encryptArr.add(asc.toString());
39          }
40
41      }
42
43          System.out.println(encryptArr);
44      }
45  }
```

Provide custom input

Save Run Submit

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