https://course.acciojob.com/idle?question=bb5c6b9d-ba2d-48c1-bb77-ae4a710ecb9a

- MEDIUM
- Max Score: 40 Points
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Longest Common Prefix

You are given an array ‘ARR’ consisting of ‘N’ strings. Your task is to find the longest common prefix among all these strings.

A prefix of a string can be defined as a substring obtained after removing some or all characters from the end of the string.

For Example: Consider ARR = [“coding”, ”codezen”, ”codingninja”, ”coders”]

The longest common prefix among all the given strings is “cod” as it is present as a prefix in all strings. Hence, the answer is “cod”.

Input Format

The first line contains a single integer `N` denoting the number of strings in the array.

The next line contains `N` space-separated strings denoting the elements of the array ‘ARR’.

Output Format

Print a single string corresponding to the longest common prefix.

Example 1

Input

```
4
coding codezen codingni coder
```

Output

```
cod
```

Explanation

The longest common prefix among all the given strings is “cod” as it is present as a prefix in all strings. Hence, the answer is “cod”.

Example 2

Input

```
3
night nina nil
```

Output

```
ni
```

Explanation

The longest common prefix among all the given strings is “ni” as it is present as a prefix in all strings. Hence, the answer is “ni”.

Constraints

1 <= N <= 3000

1 <= |ARR[i]| <=1000

Each string consists of only lowercase Latin letters.

It is guaranteed that the longest common prefix is not an empty string

Topic Tags

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- **Strings**

My code

```
// n java
mport java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
        public static void main (String[] args) throws
java.lang.Exception
        {
                //your code here
      Scanner s=new Scanner(System.in);
      int n=s.nextInt();
      String arr[]=new String[n];
      for(int i=0;i<n;i++)
        arr[i]=s.next();
      int stlen=arr[0].length();
      String ans="";
      int ind=-1;

  for(int j=0;j<stlen;j++)
    {
      int f=0;

   char ch=arr[0].charAt(j);
        for(int i=1;i<n;i++)
        {
```

```
            char c=arr[i].charAt(j);
            if(ch==c) ;
            else {f=1;break;}
          }
        if(f==1)break;
        else ind=j;
      }

        System.out.print(arr[0].substring(0,ind+1));









        }
}
```