Sample Problem Statement

The task is to take and transform a string such that there are no numbers or special characters in it, just alphabets.

Input

The first line of input consists of a number, **N** followed by **N** strings.

Output

Output the transformed string. If the transformed string is empty, output -1.

Example

Input 1

```
1
F$$
```

Output 1

```
F
```

Input 2

```
5
aBC^d$1
$1^
a=====b
fb1aa
hello_111
```

Output 2

```
aBCd
-1
ab
abc
fbaa
hello
```