Special Queries

Problem	Submissions	Leaderboard	Discussions

Problem Statement

You will be given Q queries. In each query you will get a command. The command is of two types -

1. You will be given 0 and $Name$ of a person who stood in a line of a ticket counter.

2. You will be given only 1 which means the person in front of the line got the ticket and will be removed from the line. You need to print the name of that person who got that ticket. If there are no one in the line, print $Invalid$.

Note: There can be multiple person in the line with same name.

Input Format

- First line will contain Q.

- Next Q lines will contain the commands.

Constraints

1. $1 \le Q \le 10^6$

2. $1 \le |Name| \le 1000$. Here |Name| means the length of the string and it will not contain any space. The string will contain only small English alphabets.

Output Format

- For each time someone get out of the line, print his/her name. Print a new line after that.

Sample Input 0

```
5
0 rahim
0 karim
1
0 sakib
1
```

Sample Output 0

```
rahim
karim
```

Sample Input 1

```
8
1
0 embappe
0 neymar
1
1
0 messi
1
1
```

Sample Output 1

```
Invalid
embappe
neymar
messi
Invalid
```

Sample Input 2

```
6
0 embappe
0 embappe
1
1
0 messi
1
```

Sample Output 2

```
embappe
embappe
messi
```

C++20

```cpp
1  #include <bits/stdc++.h>
2
3  using namespace std;
4
5
6
7  int main()
8  {
9      // Write your code here
10
11     return 0;
12 }
13
```

Line: 1 Col: 1

⬆ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code