

Output

For each situation, the output is a single line that contains the number of objects to be removed before the desired item can be removed in accordance with Bob's mother desires.

Sample Input

```
5
0 0 4 4 3 4 6 6 5 0 7 4 4 6 5 8 20 0 21 21
20 0 21 21
4
0 0 4 4 3 4 6 6 5 0 7 4 4 6 5 8
0 0 4 4
0
```

Sample Output

```
0
2
```