

3129 - Mysterious Number

Description

Alice had a bag where each number from 1 to N was present in it. After a magic trick she either removes all even numbers or all odd numbers from the bag. Given the kind of trick she has performed find the P th smallest number in the bag after the trick. For example $P = 1$ denotes the smallest number present.

Input specification

First line contains $1 \leq T \leq 100$, the number of test cases. Each test case consists of $1 \leq N \leq 10^3$, a string S and an integer $P \geq 1$ in single line. S will be either "odd" or "even"(quotes for clarity), denoting the kind of trick Alice has performed. Note: It is guaranteed that P will be less than or equal to remaining items in the bag.

Output specification

For each test case, print the required answer in one line.

Sample input

```
2
4 odd 2
5 even 2
```

Sample output

```
4
3
```

Hint(s)

Example 1.

After performing the "odd" trick the numbers 1 and 3 get removed from the bag.

Numbers 2 and 4 are left in the bag.

2nd smallest number is 4 now.

Source

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Added by

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