



### 3 - Exam

Your friend and you took the same true/false exam. You know your answers, your friend's answers, and the number of your friend's answers that were correct. Compute the maximum possible score you could have gotten.

#### Input

The first line contains the number of cases. For each case, the first line contains a single integer  $k$ , the number of correct answers on your friend's exam. The second line contains a string of characters, the answers you wrote down. Each letter is either a 'T' or an 'F'. The length of the string is the number  $n$  of exam questions. The third line also contains a string of  $n$  characters, the answers your friend wrote down. Each letter is either a 'T' or an 'F'. Bounds are  $0 \leq k \leq n \leq 1000$ ;  $1 \leq n$ .

#### Output

For each case, the output is one line containing "Case #", the number of the case, ": " and the maximum number of questions you could have gotten correct.

#### Sample Input

```
2
3
FTFFF
TFTTT
6
TTFTFFTFTF
TTTTFFTTTT
```

#### Sample Output

```
Case #1: 2
Case #2: 9
```