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## Answer

One day, Jojo and Lili took the same true or false exam. Jojo know their answers and the number of Lili's correct answer. What is the maximum score Jojo can get?

### Format Input

The input will consist of several lines in **testdata.in** file. The input begins with an integer T indicating the number of test cases. In each test case, there are 3 lines of input. The first line will be a positive integer K, indicating the number of correct answers on Lili's exam. The second line contains a string of N characters, the answers Jojo wrote down. Each letter is either a 'T' or an 'F'. N is the number of exam questions. The third line also contains a string of N characters, the answers Lili wrote down. Each letter is either a 'T' or an 'F'.

### Format Output

For each test case, output the maximum score Jojo can get.

### Constraints

$1 \leq T \leq 100$

$1 \leq N \leq 10\,000$

$0 \leq K \leq N$

| Sample Input (testdata.in)                                 | Sample Output (standard output) |
|--|---------------------------------|
| 2<br>3<br>TFTFTF<br>FTFTFT<br>6<br>TFTFTFTFTF<br>TTTTFTTTT | Case #1: 3<br>Case #2: 9        |