

2018 ICPC Pacific Northwest Regional Contest

PROBLEM A — LIMIT 1 SECOND

Exam



Your friend and you took a true/false exam of n questions. You know your answers, your friend's answers, and that your friend got k questions correct.

Compute the maximum number of questions you could have gotten correctly.

Input

The first line of input contains a single integer k .

The second line contains a string of n ($1 \leq n \leq 1000$) characters, the answers you wrote down. Each letter is either a 'T' or an 'F'.

The third line contains a string of n characters, the answers your friend wrote down. Each letter is either a 'T' or an 'F'.

The input will satisfy $0 \leq k \leq n$.

Output

Print, on one line, the maximum number of questions you could have gotten correctly.

Sample Input and Output

3 FTFFF TFTTT	2
---------------------	---

2018 ICPC Pacific Northwest Regional Contest

6 TTFTFFTFTF TTTTFFTTTT	9
-------------------------------	---