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The Virtual Learning Environment for Computer Programming

The one of the edition distance (I)

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Some problems are so classic that barely need a statement. For this one, please compute the minimum cost to insert letters into two words w_1 and w_2 to make them identical. Both words are made up of only letters chosen among the *n* smallest lowercase letters (for instance, for n = 4, the alphabet is $\{a, b, c, d\}$). For every letter (call it *x*), inserting an *x* in any place in any word has cost I_x .

Input

Input consists of several cases. Each case begins with $2 \le n \le 26$, followed by *n* strictly positive natural numbers I_a , I_b , I_c , Follow two words w_1 and w_2 made up of between 1 and 1000 lowercase letters chosen among the *n* smallest letters. Assume $1 \le I_x \le 1000$ for every letter *x*.

Output

For every case, print the minimum cost to make w_1 and w_2 identical.

Sample input	Sample output
2 11 10 aaa aba	21 200 102 40
4 100 100 100 1 abcd bcda	
3 1 10 100 abbcabccabbac bbcabacabbac	
4 1 2 1 4 dcbbcbbddccdabdbdbdcbbc cddcab	

Problem information

Author : Omer Giménez Translator : Carlos Molina Generation : 2024-04-30 17:54:30

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