1. PicardsPhrase

Captain Picard of the StarTrek Enterprise,is venturing into new Galaxies,with his team.
He receives a strange message from one of his first officers, Riker, who is on board another StarShip of the Klingons on an inter-galactic summit. Klingons,known for their interest in English words, have set a simple task for Riker to solve, before they beam him back to Enterprise.
Given a set of words, Riker is to find the number of steps needed to make each of these a palindrome.
They have also set two rules for the same -
a. He can only change the alphabet to the one that comes (order being - A to Z) before it.
So, if the word has the letter 'n' , then it can be replaced with the letter 'm' but not 'o'.
b. The alphabet 'a' cannot be changed.
Each modification of any letter can be counted as a single step.

Riker sent the words to Captain. Help Cptn. Picard in solving the problem (number of steps needed to make each of the words a palindrome)

Here is a sample, given the word,ijk the following two steps are performed: ijk -> ijj -> iji

Input Format
The first line contains a digit p, the number of words.
The next p lines - will each contain a word.

Constraints
1 <= p <= 10
1 <= |a| <= 10 power 4
All words have lower case English letters, ascii [a-z], with no spaces.

Output Format
One line per word containing the minimum number of steps needed.

Input/Output

Input	Output	Comments

4 **pqr** **pqrqp** **pqrs** **rqp**	 **2** **0** **4** **2**	**Explanation:** For 1st input word: pqr -> pqq -> pqp . **Hence o/p : 2** For 2nd input word: pqrqp is already a palindrome. **Hence o/p : 0** For 3rd input word: pqrs -> pqrr -> pqrq -> pqrp -> pqqp. **Hence o/p : 4** For 4th input word: rqp -> qqp -> pqp. **Hence o/p : 2**
2 **good** **mrng**	 **3** **10**	**Explanation:** For 1st input word:good->food->eood->dood. **Hence o/p : 3** For 2nd input word: mrng->krng->jrng->irng->hrng->grng->gqng->gpng->gong->gnng. **Hence o/p : 10**

2. Minimum Multiple

Given a collection C1 of 'n' positive integers and a number 'm' write a C program to find the minimum multiple of m in C1. If no such multiple exist in C1 then print 'No multiple found'

For example, if there are seven elements 23, 24, 25, 12, 6, 7, 11 and m is 3 then the output should be 6.

Input Format

First line contains the number of elements in the collection C1, n

Next 'n' lines contain the elements in the collection C1

Next line contains the value of m

Output Format

Print the minimum multiple of 'm' present in C1 or 'No multiple found'.

Input/Output

Input	Output	
5 22 1 6 4 39 5	No multiple found	Explanation: Input Format: First line contains the number of elements in the collection C1, n Next 'n' lines contain the elements in the collection C1 Next line contains the value of m Output Format: Print the minimum multiple of 'm' present in C1 or 'No multiple found'
5 36 100 5 18 1 6	18	Explanation: Input Format: First line contains the number of elements in the collection C1, n Next 'n' lines contain the elements in the collection C1 Next line contains the value of m Output Format: Print the minimum multiple of 'm' present in C1 or 'No multiple found'