

# Primitive Typing

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Given a screen containing alphabets from a-z, we can go from one character to another character using a remote. The remote contains left, right, top and bottom keys.

**Remote :**



Find the shortest possible path to type all characters of given string using the remote. The initial position is top left and all characters of input string should be printed in order. Print the total number of moves in such a path (Move UP, DOWN, LEFT, RIGHT). Pressing OK also accounts for one move.

**Screen:**

```
a b c d e
f g h i j
k l m n o
p q r s t
u v w x y
z
```

**Input:**

The first line contains an integer T which is the number of test cases. Each test case contains a string s.

**Output:**

Print the number of minimum moves required to print the string s.

**Constraints:** $1 \leq T \leq 100$  $1 \leq |s| \leq 100$ **Example:****Input:**

2

cozy

a

**Output:**

24

9