



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. King Moves

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

The only king stands on the standard chess board. You are given his position in format "cd", where C is the column from 'a' to 'h' and d is the row from '1' to '8'. Find the number of moves permitted for the king.

Check the king's moves here https://en.wikipedia.org/wiki/King (chess).

King moves from the position e4

Input

The only line contains the king's position in the format "cd", where 'c' is the column from 'a' to 'h' and 'd' is the row from '1' to '8'.

Output

Print the only integer *X* — the number of moves permitted for the king.

Example

input
e4
output
8

Educational Codeforces Round 16

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags	
implementation	No tag edit access

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→ Contest materials

- Announcement
- Tutorial

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