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## Input

The input file will contain one or more test cases. Each test case consists of one line containing two squares separated by one space. A square is a string consisting of a letter (a-h) representing the column and a digit (1-8) representing the row on the chessboard. See the figure above.

## Output

For each test case, print one line saying "To get from xx to yy takes n knight moves.".

Input Sample	Output Sample
e2 e4	To get from e2 to e4 takes 2 knight moves.
al b2	To get from al to b2 takes 4 knight moves.
b2 c3	To get from b2 to c3 takes 2 knight moves.
al h8	To get from al to h8 takes 6 knight moves.
al h7	To get from al to h7 takes 5 knight moves.
h8 a1	To get from h8 to al takes 6 knight moves.
b1 c3	To get from b1 to c3 takes 1 knight moves.
f6 f6	To get from f6 to f6 takes 0 knight moves.