

Description

Given a four-digit number, encrypt and output it. The encryption method is to, for every digit in the number, first add 5 to it and then convert it into an capitalized English letter. The mapping between numbers to letters for the conversion is: 1 mapped to A, 2 mapped to B,..., 26 mapped to Z.

Input Form

A four-digit integer.

Output Form

The encrypted result.

Examples

Input: 5089

The desired output: JEMN