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The Virtual Learning Environment for Computer Programming

## Counting cool words

Examen parcial d'Algorísmia, FME (2010-10-26)
In this problems, we say that a word is cool if it does not have two consecutive consonants. Write a program to compute how many words with $n$ lowercase letters, $v$ of which are vowels, are cool.
For instance, these are some of the many cool words for $n=5$ and $v=3$ :
aabab ababa babaa toiep zeyui

Remember that there are 5 vowels and 21 consonants.

## Input

Input consists of several cases, each with two natural numbers $1 \leq n \leq 15$ and $0 \leq v \leq n$.

## Output

For every case, print the number of cool words with $n$ lowercase letters, $v$ of which are vowels. This number is always smaller than $10^{18}$.

## Sample input



1515

## Problem information

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