Credit for these problems goes to codeforces.com ,but please do not try to find the solutions to the contest problems online.

PROBLEM 1

Vitya has just started learning Berlanese language. It is known that Berlanese uses the Latin alphabet. Vowel letters are "a", "o", "u", "i", and "e". Other letters are consonant.

In Berlanese, there has to be a vowel after every consonant, but there can be any letter after any vowel. The only exception is a consonant "n"; after this letter, there can be any letter (not only a vowel) or there can be no letter at all. For example, the words "harakiri", "yupie", "ninja", "sumimasen", "man", and "nbo" are Berlanese while the words "codeforces", "horse", "king", "my", and "nz" are not.

Help Vitya find out if a word s is Berlanese.

INPUT: One line consisting of string s (|s| ($1 \leq |s| \leq 100$) lowercase Latin letters.)

OUTPUT: Print "YES" without quotes if the word is Berlanese. Print "NO" without quotes otherwise.

Problem 2

Limak is going to participate in a contest on the last day of the 2016. The contest will start at 20:00 and will last four hours, exactly until midnight. There will be n problems, sorted by difficulty, i.e. problem 1 is the easiest and problem n is the hardest. Limak knows it will take him $5 \cdot i$ minutes to solve the i-th problem.

Limak's friends organize a New Year's Eve party and Limak wants to be there at midnight or earlier. He needs k minutes to get there from his house, where he will participate in the contest first.

How many problems can Limak solve if he wants to make it to the party?

INPUT

The only line of the input contains two integers n and k ($1 \leq n \leq 10$, $1 \leq k \leq 240$) — the number of the problems in the contest and the number of minutes Limak needs to get to the party from his house.

OUTPUT

Print one integer, denoting the maximum possible number of problems Limak can solve so that he could get to the party at midnight or earlier.

Examples

- Input: 3 222 | Output: 2
- Input: 4 190 | Output: 4
- Input: 7 1 | Output: 7