



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API HELP HONORCUP 🛣 CALENDAR

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. New Year and Hurry

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

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 ($1 \le n \le 10$, $1 \le k \le 240$) — 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	Сору
3 222	
output	Сору
2	
input	Сору
4 190	
output	Сору
4	
input	Сору
7 1	
output	Сору

Note

7

In the first sample, there are 3 problems and Limak needs 222 minutes to get to the party. The three problems require 5, 10 and 15 minutes respectively. Limak can spend 5+10=15 minutes to solve first two problems. Then, at 20:15 he can leave his house to get to the party at 23:57 (after 222 minutes). In this scenario Limak would solve 2 problems. He doesn't have enough time to solve 3 problems so the answer is 2.

In the second sample, Limak can solve all 4 problems in 5 + 10 + 15 + 20 = 50 minutes. At 20:50 he will leave the house and go to the party. He will get there exactly at midnight.

In the third sample, Limak needs only 1 minute to get to the party. He has enough time to solve all 7 problems.

Good Bye 2016 Finished Practice

→ Virtual participation

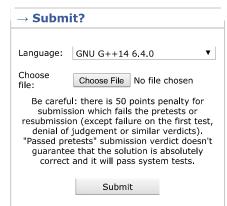
Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a 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

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest



→ Last submissions		
Submission	Time	Verdict
64854877	Nov/14/2019 00:55	Accepted



→ Contest materials		
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