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## DETAILS

#### Name

**BOYA KUSHAL** 

#### Roll Number

TEMPBTech-ECE020

### **EXPERIMENT**

# Title

DIWALI CONTEST

Description Max is planning to take part in a Diwali contest at a Diwali Party that will begin at 8 PM and will run until midnight (12 AM) i.e., for 4 hours. He also needs to travel to the party venue within this time which takes him P minutes. The contest comprises of N problems that are arranged in order of difficulty, with problem 1 being the simplest and problem N being the most difficult. Max is aware that he will require 5\*i minutes to solve the i<sup>th</sup> problem.

Your task is help Max find and return an integer value, representing the number of problems Max can solve and reach the party venue within the given time frame of 4 hours.

Note: Max will leave his home at exactly 8 PM to reach the party venue.

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#### **Input Format:**

input1: An integer value N, representing the total number of problems.

input2: An integer value P, Representing the time to travel in minutes from his home to the party venue.

#### **Example:**

#### Input:

6

180

#### **Output:**

#### **Explanation:**

The amount of time left to solve the problems is 4\*60-180=60 mins.

1st Problem - 5 mins, Time left = 60-5=55 mins

2nd Problem - 10 mins, Time left = 55-10=45 mins

3rd Problem - 15 mins, Time left = 45-15=30 mins

4th Problem - 20 mins, Time left = 30-20=10 mins

5th Problem - 25 mins

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So he can solve only 4 problems as he is not left with 25 mins to complete 5th problem.

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Source Code:

N = int(input())
P = int(input())
time = 240 - P
timeleft = time

i= 1
while i<=N and 5*i<=timeleft:
    timeleft -= 5*i
    i+=1
print(i-1)

RESULT

Fig. 200 Text Cases Passed | 100 %
```