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HARISH SHARANAPPA PATIL

# EXF Pittle **EXPERIMENT**

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.

## 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:

4

### **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

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

## Roll Number

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```
def max_problems_solved(N, P):
    # Total available time for solving problems
(240 minutes minus travel time)
    remaining_time = 240 - P
```

# Initialize counters for time and problems s olved  $time\_spent = 0$ 

```
count = 0
# Iterate over problems from 1 to N
```

for i in range(1, N + 1): # Time to solve the ith problem time\_to\_solve = 5 \* i

# Check if there's enough time left to so lve this problem if time\_spent + time\_to\_solve > remaining

\_time: break # Max can't solve more problem

# Update the time spent and count of prob lems solved

> time\_spent += time\_to\_solve count += 1

return count N=int(input()) P=int(input()) result=max\_problems\_solved(N,P) print(result)

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