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	STUDENT REPORT	
DE	ETAILS OF SHELLS	
	Name Andrew Control of the Control o	
	MALLIKA K	
F	Roll Number St. Co. St	3
	3BR23CD055	
EX	PERIMENT COST AND COS	
Ser E	DIWALI CONTEST	
[	Description Control of the Control o	
	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 <b>P</b> minutes. The contest comprises of <b>N</b> 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.	55
	Note: Max will leave his home at exactly 8 PM to reach the party venue.	
23°C	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.	52,
	Example:	
	Input:	
	6	
	180	
	Output:	
230	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.
```

## **Source Code:**

```
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 solved
    time\_spent = 0
    count = 0
    \mbox{\tt\#} Iterate over problems from 1 to N
    for i in range(1, N + 1):
        # Time to solve the ith problem
        time_{to} = 5 * i
        # Check if there's enough time left to solve this problem
        if time_spent + time_to_solve > remaining_time:
            break # Max can't solve more problems
        # Update the time spent and count of problems solved
        time_spent += time_to_solve
        count += 1
    return count
N=int(input())
P=int(input())
result=max_problems_solved(N,P)
print(result)
```

## **RESULT**

0 / 5 Test Cases Passed | 0 %