|         | <b>₽</b> Logo  |                                   |
|---------|--|-----------------------------------|
| ,°°°    | STUDENT REPORT REPORT AND ARRASCHOST ARRASCH | R13CD0?                           |
| DE      | THIES by by  | :,003 <sup>1</sup> 3 <sup>R</sup> |
| CD03.   | SNANDITIA  | 3                                 |
| R       | Roll Number 3CV 38F 3CV 3FF 3CV 3FF  | 382736                            |
| BRI     |  |                                   |
|         | (PERIMENT 35 ARL) SERVICE SERV | 23CD03                            |
| Titl    | Service of the servic | 7                                 |
| D       | Description 200 200 200 200 200 200 200 200 200 20   | 503138                            |
| scho31  | 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   | 3BR136                            |
| 31388   | 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.  | 13003                             |
|         |  | 130                               |
| 3R23CD1 | Input Format:  | 4                                 |
| 3/2     | input1: An integer value N, representing the total number of problems.   | ,03 <sup>1</sup> 3 <sup>b</sup>   |
| · · ·   | input2: An integer value P, Representing the time to travel in minutes from his home to the party venue.   | ,0                                |
| CD031   | Example:   | BRIS                              |
| 0       | Input:   | 'b"                               |
| 3 3BRJ  | 6  | 0                                 |
|         | 100  | 000                               |

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

ARDBOT

BONUBAIR

**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
    # 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 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

5 / 5 Test Cases Passed | 100 %