O'r	Logo	. 0
Š	STUDENT REPORT SEPORT	R23CA
DE NE SCATOR	TAIL 5 10 23 CR 10 A 3 B R 23 CR 10 A 3	2. A10A3P
SCP R	SIDDARTH A  Roll Number	Nagh Page
2		
Titl	Service of the servic	R23CA10
CA <sup>O</sup> OA <sup>O</sup> OA <sup>O</sup> OA <sup>O</sup> OA <sup>O</sup> OA	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 5th minutes to solve the ith problem	3BR136
		23CA10
C.P	Note: Max will leave his home at exactly 8 PM to reach the party venue.  Input Format:	. •
3R23CA	input1: An integer value N, representing the total number of problems.	38
c A	input2: An integer value P, Representing the time to travel in minutes from his home to the party venue.	VOV.
CAIOA	Example:	3BR23C
BRI	Input:	
0A 36		10
	180	\$30k
3R23CA	Output:	
3P-1	4 Evalenation:	CBR 3B
q	Explanation:  The amount of time left to solve the problems is 4*60-180=60 mins.	103 ×
	1st Problem - 5 mins, Time left = 60-5=55 mins	. 0
	2nd Problem - 10 mins, Time left = 55-10=45 mins	3BEA3
	3rd Problem - 15 mins, Time left = 45-15=30 mins	ha."

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

5th Problem - 25 mins

## **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 %

OA'S CA

RIL

3CP.

BRIL

NOR

CP.

St. Cr