

```
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
        \ensuremath{\text{\#}} 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 %