DETAILS Name JASON KENNETH N SEOA UBZ **Roll Number** KUB23CSE045 **EXPERIMENT** Title 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: 180 **Output: 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

49

**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
        \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 %

3 / 3 Test eases rassed | 100 /0

1823

CSEN

JBZ

COAS

230

" to

70

Ca, File