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

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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# 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

5 / 5 Test Cases Passed | 100 %

return count

result=max\_problems\_solved(N,P)

N=int(input()) P=int(input())

print(result)

https://practice.reinprep.com/student/get-report/b642943c-7cbd-11ef-ae9a-0e411ed3c76b