STUDENT REPORT

128 TEMP Blechtell 129 TEMP ST DETAILS

AYESHA SADIYA

EXPERIMENT

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 ${\bf P}$ 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 ith 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:

6

180

Output:

4

EEE 20

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

So he can solve only 4 problems as he is not left with 25 mins to complete 5th problem.

Roll Number

TEMPBTech-EEE129

Source Code:

print(result)

```
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 s
olved
    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 so
lve this problem
        if time_spent + time_to_solve > remaining
_time:
            break # Max can't solve more problem
S
        # Update the time spent and count of prob
lems solved
        time_spent += time_to_solve
        count += 1
    return count
N=int(input())
P=int(input())
result=max_problems_solved(N,P)
```

RESULT EEE NOT

(EW, EWE, OOLK

845 ESS

4400