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STUDENT REPORT

8823

# DETAILS

#### Name

SANJANA V CHOUDHARI

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#### **Roll Number**

3BR23CD086

,0863 **Title** 

DIWALI CONTESTS

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.

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## **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

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9/28/24, 1:32 PM 3BR23CD086-Diwali Contest

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

## **Source Code:**

```
def max_problems(N,P):
    time_remaining=240-P
    time_spent=0
    count=0

for i in range(1,N+1):
        time_to_solve=5*i

    if time_spent+time_to_solve>time_remaining:
        break
        time_spent+=time_to_solve
        count+=1

    return count

N=int(input())
P=int(input())
res=max_problems(N,P)
print(res)
```

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0 / 5 Test Cases Passed | 0 %

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(38)

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