Logo STUDENT REPORT **DETAILS** Name ASRAR AHEMED K 8023 **Roll Number** TEMPBTech-ECE023 **EXPERIMENT** Title DIWALL 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: 6 180 **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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N=int(input())
P=int(input())
time=240-P
timeleft=time
i=1
while i<=N and 5\*i<=timeleft:
timeleft-=5\*i
i+=1
print(i-1)

RESULT

5/5 Test Cases Passed | 100 %