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STUDENT REPORT **DETAILS** Roll Number Name SAMALA JAHNAVI 23D21A05H4 **EXPERIMENT** Title SOLVE THE EQUATION Source Code: Description Given an integer N, your task is to find and return the N = int(input()) number of sets of 3 positive integers a, b and c. that satisfy def count_sets(N): the following equation: count = 0 for a in range(1, N+1): $a^2+b^2+c^2+ab+bc+ca = N$ for b in range(1,N+1): for c in range(1,N+1): Note: a, b and c ore positive integers, and their values can if a**2+b**2+c**2+a*b+b*c+c*a == N: be the same. count += 1 return count **Input Specification:** print(count_sets(N)) input1: An integer value N **Output Specification:** Return an integer value, representing the number of sets of three positive integers that satisfy the equation given **Sample Input: Sample Output: Explanation:** The only pair (a,b,c) possible is (1,1,1) RESULT 5 / 5 Test Cases Passed | 100 %230 2301