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import math

def valid_pair(a, b):
    n2 = (a+b)//2
    n1 = (a-b)//2
    if n1>=0 and n2>=0 and n2>=n1:
        return True
    return False

N, ans = int(input("Alice wants exactly how many candies :")), 0

for i in range(1, int(math.sqrt(N))+1):
    if N%i == 0:
        a, b = i, N//i
        if (a%2==0 and b%2==0) or (a%2 and b%2):
            if valid_pair(a, b):
                ans += 1
            if i*i != N and valid_pair(b, a):
                ans += 1

print("Number of different sets of candy packets that Alice can buy",ans)

```

Alice wants exactly how many candies : 1000000

Number of different sets of candy packets that Alice can buy 18