class Solution(object):

def numSquares(self, n):

"""

:type n: int

:rtype: int

"""

dp=[float("inf") for i in range(n+1)]

dp[0] = 0

for i in range(1,n+1):

j=1

while j\*j<=i:

dp[i] = min(dp[i-j\*j]+1,dp[i])

j+=1

return dp[-1]