class Solution {

public:

int numSquares(int n) {

vector<int>dp(n + 1, INT\_MAX);

dp[0] = 0;

for(int i = 1; i <= n; i++)

for(int j = 1; j \* j <= i; j++)

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

return dp[n];

}

};