#include <stdio.h>

#include <string.h>

#include <math.h>

#include <stdlib.h>

void calc();

int main() {

long long int n;

long long int i;

long long int count;

long long int maxcount;

long long int current\_used\_tiles;

long long int j;

long long int num;

count = 0;

scanf("%lld",&n);

for(i=0;;i++)

{

if(4\*i+4>n)

break;

} // i-1 is the maximum square hole that can be formed

maxcount = i-1;

current\_used\_tiles = 0;

for(j=1;j<=maxcount;j++)

{

current\_used\_tiles = 4\*j+4;

num = j;

anish:

if(num%2 == 0 && current\_used\_tiles <=n && num>1)

{

count = count +1;

current\_used\_tiles = current\_used\_tiles + 4\*(num-2) +4;

num = num -2;

goto anish;

}

if(num%2 != 0 && current\_used\_tiles <=n && num>1)

{

count = count +1;

current\_used\_tiles = current\_used\_tiles + 4\*(num-2) +4;

num = num -2;

goto anish;

}

if(num ==1 && current\_used\_tiles <=n)

{

count = count + 1;

num = num -2;

}

}

printf("%lld",count);

return 0;

}