import java.util.Scanner;

public class problema1 {

public static void main(String args[]) {

Scanner sc=new Scanner(System.***in***);

double n=sc.nextInt();

double sum=0;

double i=1;

do {

sum=sum+(i/((i+1)\*(i+2)));

i++;

}

while (i<=n);

System.***out***.format("%.5f%n",sum);

sc.close();

}

}

public class problema2 {

public static void main(String args[]) {

int n;

for (int i=1; i<8;i++) {

for (int x=1; x<8; x++) {

n=x;

System.***out***.print(n);

n++;

if (n>7)

n=1;

System.***out***.print(n);

n++;

if (n>7)

n=1;

System.***out***.print(n);

n++;

if (n>7)

n=1;

System.***out***.print(n);

n++;

if (n>7)

n=1;

System.***out***.print(n);

n++;

if (n>7)

n=1;

System.***out***.print(n);

n++;

if (n>7)

n=1;

System.***out***.print(n);

n++;

if (n>7)

n=1;

i++;

System.***out***.println();

}

}

}

}

public class problema3 {

public static void main(String args[]) {

double sum=6;

double i=4;

while(i>-1) {

sum=1/sum+i;

i-=2;

}

System.***out***.format("%.5f%n",sum);

}

}

import java.util.\*;

public class problema4 {

public static void main(String[] args) {

Scanner sc=new Scanner(System.***in***);

int a=sc.nextInt();

int b=0; int c=1; int d=0; int e=0;

int i=1;

int n=20;

do {

b=c;

c=d;

d=b+c;

i++;

e++;

if(e==a)

System.***out***.println(d);

}

while(i<=n);

sc.close();

}

}