import java.util.Scanner;  
  
public class Prob1 {  
  
 public static void main(String[] args) {  
 Scanner s=new Scanner(System.*in*);  
 int n=s.nextInt();  
 double sum=0;  
 double div=0;  
 for(int i=1;i<=n;i++){  
 div=0;  
 for(int j=1;j<=i;j++){  
 div+=j;  
 }  
 sum+=(i\*1.0)/div;  
 }  
  
 System.*out*.println(sum);  
 }  
}

import java.util.Scanner;  
  
public class prob2 {  
  
 public static void main(String[] args) {  
 Scanner s=new Scanner(System.*in*);  
 double prod=1;  
 int n=s.nextInt();  
 for(int i=2;i<=n;i+=2){  
 prod=prod\*(1.0\*i/(i-1))\*(1.0\*i/(i+1));  
 }  
 System.*out*.println(prod);  
 }  
}

import java.util.Scanner;  
  
public class Prob3 {  
  
  
 public static void main(String[] args) {  
 Scanner s=new Scanner(System.*in*);  
 int r=s.nextInt();  
  
 System.*out*.println(Math.*pow*(2\*(r-1),2));  
 }  
}