import java.util.\*;

//import java.util.Arrays;

class Series{

public static float fact(float x)

{ float s=0;

if(x==0 || x==1)

return s=1;

if(x!=0)

return s=x\*fact(x-1);

return s;

}

public static void main(String[]args)

{

float sum,sum1=1,sum2=1;

Scanner sc= new Scanner(System.in);

float n=sc.nextFloat();

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

{

if(n%2==0)

sum1 = sum1+(n/fact(n));

else

sum2 = sum2+(n/fact(n));

//sum = sum2-sum1;

}

System.out.println(sum2-sum1);

}

}