累加累乘

#include <stdio.h>

#include <stdlib.h>

long int Fact(int n)

{

if(n == 0)

{

return 1;

}

else

{

return n\*Fact(n-1);

}

}

int main()

{

int m,k;

long int C\_mk;

do

{

printf("Input m,k (m>=k>0):");

scanf("%d,%d",&m,&k);

}while(m<0||k<0||m<k);

C\_mk = Fact(m)/Fact(k)/Fact(m-k);

printf("The combination is %ld\n",C\_mk);

return 0;

}

#include <stdio.h>

int main(void)

{

int x,sum = 0;

printf("This program sums a series of integers.\n");

printf("Enter integers (0 to terminate):");

do

{

scanf("%d",&x);

sum += x;

}while(x != 0);

printf("The sum is: %d\n",sum);

return 0;

}

#include <stdio.h>

long double Fact(double n)

{

if(n == 0)

{

return 1;

}

else

{

return n\*Fact(n-1);

}

}

int main(void)

{

double x = 1,sum = 1;

printf("e = %.8f, count = %.0f\n",sum,x);

do

{

x++;

sum += 1/Fact(x-1);

printf("e = %.8f, count = %.0f\n",sum,x);

}while((1/Fact(x-1))>=1e-7);

return 0;

}

#include <stdio.h>

#include <math.h>

double myPOW(int x,int n)

{

int i;

double result = 1;

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

{

result \*= x;

}

return result;

}

int main(void)

{

int x,n;

printf("Enter x and n\n");

scanf("%d%d",&x,&n);

printf("mypow(%d,%d) = %.2f\n",x,n,myPOW(x,n));

return 0;

}

#include <stdio.h>

#include <math.h>

long fac(int n)

{

if(n == 0)

{

return 1;

}

else

{

return n\*fac(n-1);

}

}

int main(void)

{

int x;

printf("Input an integer:\n");

scanf("%d",&x);

if(x<0)

{

printf("Input Error!\n");

return 0;

}

printf("%d! = %ld\n",x,fac(x));

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

int ha(int x,int y)

{

int result = 0,i;

for(i = 1; i <= y ; i++)

{

result \*= 10;

result += x;

}

return result;

}

int main()

{

int a,n,i;

long int sum = 0;

printf("please input a and n\n");

scanf("%d,%d",&a,&n);

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

{

sum += ha(a,i);

}

printf("a=%d,n=%d\n",a,n);

printf("a+aa+...=%ld\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{

int x,sum = 0,count = 0;

do

{

printf("Input a number:\n");

scanf("%d",&x);

if(x>0)

{

sum += x;

count++;

}

}while(x != 0);

printf("sum=%d,count=%d\n",sum,count);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{

float i = -1, sum = 0;

int che;

do

{

i += 2;

che = (int) i;

if((che-1)%4 == 0)

{

sum += 1/i;

}

else

{

sum -= 1/i;

}

}while(1/i >= 1e-6);

printf("sum=%.3f\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

float fib(float n)

{

if(n == 1||n == 2)

{

return 1;

}

else

{

return fib(n-1)+fib(n - 2);

}

}

int main()

{

float up,down,sum = 0,n = 20,i;

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

{

up = fib(i+2);

down = fib(i+1);

sum += up/down;

}

printf("总和=%9.6f\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

long Fact(int n)

{

int i;

long result = 1;

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

{

result \*= i;

}

return result;

}

int main()

{

int n,i;

long sum = 0;

printf("Input n(n>0):");

scanf("%d",&n);

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

{

sum += Fact(i);

}

printf("sum = %ld\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{

int a[100],b[100],n,i;

float sum = 0;

printf("Input n\n");

scanf("%d",&n);

printf("Input array a\n");

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

{

scanf("%d",&a[i-1]);

}

printf("Input array b\n");

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

{

scanf("%d",&b[i-1]);

}

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

{

sum += a[i-1]\*b[i-1];

}

printf("\nsum=%f",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#define single 1.42e8

double gugugu(int n)

{

int i;

double result = 1;

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

{

result \*= 2;

}

return result;

}

int main()

{

int n = 64,i;

double sum = 0,volum;

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

{

sum += gugugu(i-1);

}

volum = sum/single;

printf("sum = %e\nvolum = %e\n",sum,volum);

return 0;

}

#include <stdio.h>

#include <math.h>

long Fact(int n)

{

int i;

long result = 1;

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

{

result \*= i;

}

return result;

}

int main(void)

{

int n,i;

long sum = 0;

printf("Input n:\n");

scanf("%d",&n);

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

{

sum += Fact(2\*i - 1);

}

printf("sum=%ld\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{

float i = -1, sum = 0;

int che,count = 0;

do

{

i += 2;

count++;

che = (int) i;

if((che-1)%4 == 0)

{

sum += 1/i;

}

else

{

sum -= 1/i;

}

}while(1/i >= 1e-4);

printf("pi = %f\ncount = %d\n",sum\*4,count);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

long Fact(int n)

{

int i;

long result = 1;

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

{

result \*= i;

}

return result;

}

int main()

{

int m,k;

long c;

do

{

printf("Input m,k (m>=k>0):");

scanf("%d,%d",&m,&k);

}while(m <k||k <0);

c = Fact(m)/Fact(k)/Fact(m-k);

printf("The combination is %ld\n",c);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main(void)

{

int i = 1;

while(i\*i<=100)

{

printf("%d\*%d=%d\n",i,i,i\*i);

i++;

}

return 0;

}

#include <math.h>

int main()

{

int x,sum = 0;

do

{

printf("Input num:");

scanf("%d",&x);

sum += x;

printf("sum = %d\n",sum);

}while(x != 0);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

long int Fact(int n)

{

if(n == 0)

{

return 1;

}

else

{

return n\*Fact(n-1);

}

}

int main()

{

int m,n;

long int C\_mn;

double c;

printf("请输入m,n的值( m>n )：\n");

scanf("%d %d",&m,&n);

C\_mn = Fact(m)/Fact(n)/Fact(m-n);

c = C\_mn;

printf("n项之和为：%lf\n",c);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int pow(int a,int n)

{

int i,result = 1;

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

{

result \*= a;

}

return result;

}

int main()

{

int i,a = 2,b = -3;

for(i = 0; i <= 5; i++)

{

printf("2 power %d is %d, -3 power %d is %d\n",i,pow(a,i),i,pow(b,i));

}

return 0;

}

#include <stdio.h>

#include <stdlib.h>

long Fact(int n)

{

int i;

long result = 1;

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

{

result \*= i;

}

return result;

}

int main()

{

int i;

for(i = 1; i <= 5; i++)

{

printf(" %2d!=%ld",i,Fact(i));

}

printf("\n");

for(i = 6; i <= 10; i++)

{

printf(" %2d!=%ld",i,Fact(i));

}

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

int main()

{

int x,a,b,c,d;

printf("Input data is:");

scanf("%d",&x);

a = x%10;

b = x/10%10;

c = x/100%10;

d = x/1000;

x = a+b+c+d;

x = fabs(x);

printf("The sum of the total bit is %d\n",x);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

double f(double x)

{

double result;

result = x\*x + 2\*x + 1;

return result;

}

int main()

{

int i;

double n,a,b,sum = 0,delta\_x;

printf("Enter n,a,b:");

scanf("%lf,%lf,%lf",&n,&a,&b);

delta\_x = (b-a)/n;

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

{

sum += delta\_x/2\*(f(a+(i-1)\*delta\_x)+f(a + i\*delta\_x));

}

printf("Sum=%lf\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

long gu(int a,int n)

{

int i;

long g = 0;

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

{

g \*= 10;

g += a;

}

return g;

}

int main()

{

int a,n,i,single;

long sum = 0;

do

{

printf("Please input a:");

scanf("%d",&a);

}while(a<1||a>9);

do

{

printf("Please input n:");

scanf("%d",&n);

}while(n<=0||n>=10);

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

{

single = gu(a,i);

sum += single;

if(i == 1)

{

printf("Sum=%ld",single);

}

else

{

printf("+%ld",single);

}

}

printf("\nSum=%ld",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

int main()

{

int i;

double x = 1,sum = 0;

for(i = 1; i <= 10; i++)

{

sum += x/(x+1);

sum += (x+2)/(x+1);

x += 2;

}

printf("result = %f\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

double fib(int n)

{

if(n == 1||n == 2)

{

return 1;

}

else

{

return fib(n-1)+fib(n - 2);

}

}

int main()

{

int i;

double sum = 0;

for(i = 1; i <= 20; i++)

{

sum += fib(i+2)/fib(i+1);

}

printf("sum is %9.6lf\n",sum);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

double Fact(int n)

{

int i;

double result = 1;

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

{

result \*= i;

}

return result;

}

int main()

{

int i = 1;

double sum = 1;

do

{

sum += 1/Fact(i);

i++;

}while(1/Fact(i-1)>=1e-5);

printf("e = %f, count = %d\n",sum,i);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

#define eps 1e-5

double fact(int n)

{

int i;

double result = 1;

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

{

result \*= i;

}

return result;

}

int main()

{

double x,sin\_x = 0;

int i = 1;

printf("Input x:");

scanf("%lf",&x);

do

{

if(i%4 == 1)

{

sin\_x += pow(x,i)/fact(i);

}

else

{

sin\_x -= pow(x,i)/fact(i);

}

i += 2;

}while(pow(x,i-2)/fact(i-2) >= eps);

printf("sin(x) = %lf, count = %d\n",sin\_x,i/2);

}

#include <stdio.h>

#include <stdlib.h>

#include <math.h>

double fact(int n)

{

int i;

double result = 1;

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

{

result \*= i;

}

return result;

}

int main()

{

double x,sin\_x = 0,eps;

int i = 1;

printf("Enter x & eps:");

scanf("%lf%lf",&x,&eps);

do

{

if(i%4 == 1)

{

sin\_x += pow(x,i)/fact(i);

}

else

{

sin\_x -= pow(x,i)/fact(i);

}

i += 2;

}while(pow(x,i-2)/fact(i-2) >= eps);

printf("sin(%f)=%f\n",x,sin(x));

printf("%d,sin(%f)=%f\n",i/2,x,sin\_x);

}