int main()

{

double a=2;

double b=1;

double sum=0;

int tmp;

int i;

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

{

sum=sum+(a/b);

tmp=a;

a=a+b;

b=tmp;

}

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

return 0;

}

int main()

{

int num,i;

printf("请输入一个正整数:");

scanf("%d",&num);

for(i=2; i<num; i++){

while(num%i==0){

num/=i;

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

}

}

printf("%d",num);

return 0;

}

int main(){

int i,s=1;

for(i=0;i<9;i++){

s=(s+1)\*2;

}

printf("猴子第一天吃了:%d\n",s);

return 0;

}

There are 1, 2, 3, and 4 numbers. How many different three-digit numbers can be formed without repeated numbers?

int main()

{

int i,j,k,count=0;

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

for(j=1;j<5;j++) {

for (k=1;k<5;k++) {

if (i!=k&&i!=j&&j!=k) {

printf("%d%d%d, ",i,j,k);

count++;

}

}

}

}

printf("共有%d种",count);

return 0;

}

int main(){

int a[5];

int l,num,sum=0;

scanf("%d", &num);

for(l=0;num;num/=10) {

a[l++] = num % 10;

}

for(int i = l - 1; i >= 0; --i) {

printf("%d+",a[i]);

sum+=a[i];

}

printf("%d", sum);

return 0;

}

int main(){

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return 0;

}

int fact(int n)

{

if (n == 0 || n ==1)

{

return 1;

}

return n\*fact(n-1);

}

int main()

{

int n,sum=0;

printf("请输入一个正整数：",n);

scanf("%d",&n);

for(;n>0;n--){

sum=sum+fact(n);

}

printf("1-m的阶乘和为：%d\n",sum);

return 0;

}

double fact(int n)

{

if (n == 0 || n ==1)

{

return 1;

}

return n\*fact(n-1);

}

int main(){

double sum=1;

for(int n=1;1/fact(n)>=1e-50;n++){

sum+=(1/fact(n));

}

printf("e的近似值为%f\n",sum);

return 0;

}

double fact(int n)

{

if (n == 0 || n ==1)

{

return 1;

}

return n\*fact(n-1);

}

int main(){

double sum=1;

double x;

double p=1;

scanf("%lf",&x);

for(int n=1;1/fact(n)>=1e-50;n++){

sum+=(pow(x,p)/fact(n));

p++;

}

printf("e的%f次幂的近似值为%f\n",x,sum);

}

Formula 1

int main(){

int sign = 1;

double Pi = 0.0, n = 1.0, temp = 1.0;

while (fabs(temp) >= 1e-7){

Pi+=temp;

n+=2;

sign=-sign;

temp=sign/n;

}

Pi\*=4;

printf("Pi=%10.8f\n", Pi);

return 0;

}

Formula2

int main(){

double Pi = 1.0;

double n=1;

double v=2\*n\*2\*n/(2\*n-1)/(2\*n+1);

for(;v-1>=1e-15;n++){

v=2\*n\*2\*n/(2\*n-1)/(2\*n+1);

Pi\*=v;

}

Pi\*=2;

printf("Pi=%10.8f\n", Pi);

return 0;

}

int Exhaustive(int x,int y)

{

int i,n;

n=x;

if(n>y)

n=y;

for(i=n;i>0;i--){

if(x%i==0&&y%i==0)

break;

}

return i;

}

Iterative method(function)

int Iterative(int a,int b)

{

int i,c;

if(a<b)

{

c=a;a=b;b=c;

}

while((i=a%b)!=0)

{

a=b;

b=i;

}

return b;

}

Main

int main()

{

int x,y,i;

printf("请输入两个数：");

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

//i=Exhaustive(x,y);

i=Iterative(x,y);

printf("这两个数的最大公约数：%d",i);

}

int Fib(int i)

{

if ((i == 1) || (i == 2)){

return 1;

}

if (i > 2){

return Fib(i-1) + Fib(i-2);

}

return 0;

}

int main()

{

int i = 0,num=0;

for (i = 1; i <= 12; i++){

printf("第%d个月：%d \n",i,Fib(i));

num=Fib(i);

}

printf("最终有%d对兔子",num);

return 0;

}