**16进制加法**

#include <iostream>

#include <stdio.h>

using namespace std;

int main()

{

long long a,b;//或者long long a,b;

while(scanf("%llx%llx",&a,&b)!=EOF)

{

printf("%llx\n",a+b);//%llx输出小写;%llX输出大写

}

// cout << "Hello world!" << endl;

return 0;

}

**法2**、

#include <iostream>

#include <stdio.h>

#include <math.h>

#include <string.h>

using namespace std;

char str[]={'0','1','2','3','4','5','6','7','8','9','A','B','C','D','E','F'};

int main()

{

char aa[100],bb[100];

while(scanf("%s%s",aa,bb)!=EOF)

{

int a[100]={0},b[100]={0};

int len1=strlen(aa),len2=strlen(bb),len3;

for(int i=0;i<len1;i++)

{

if(aa[i]>='0'&&aa[i]<='9')

a[len1-i-1]=aa[i]-'0';

if(aa[i]>='a'&&aa[i]<='z')

a[len1-i-1]=aa[i]-'a'+10;

if(aa[i]>='A'&&aa[i]<='Z')

a[len1-i-1]=aa[i]-'A'+10;

}

for(int i=0;i<len2;i++)

{

if(bb[i]>='0'&&bb[i]<='9')

b[len2-i-1]=bb[i]-'0';

if(bb[i]>='a'&&bb[i]<='z')

b[len2-i-1]=bb[i]-'a'+10;

if(bb[i]>='A'&&bb[i]<='Z')

b[len2-i-1]=bb[i]-'A'+10;

}

int c=0;

len3=max(len1,len2);

//for(int i=0;i<len3;i++)

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

// printf("\n");

for(int i=0;i<len3;i++)

{

a[i]=a[i]+b[i]+c;

if(a[i]>15)

{

c=a[i]/16;

a[i]=a[i]%16;

}

else c=0;

}

//for(int i=0;i<len3;i++)

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

//printf("%d",c);

//printf("\n\n");

if(c>=1)

{

a[max(len1,len2)]=c;

len3=max(len1,len2)+1;

}

for(int i=len3-1;i>=0;i--)

{

int tmp=a[i];

printf("%c",str[tmp]);

}

printf("\n");

}

//cout << "Hello world!" << endl;

return 0;

}

**电话本合并**

#include <iostream>

#include <stdio.h>

#include <vector>

#include <set>

#include <algorithm>

#include <string.h>

using namespace std;

struct E{

char name[100];

char num[100];

};

bool operator ==(E a,E b)

{

return strcmp(a.name,b.name)==0&&strcmp(a.num,b.num)==0;

}

bool operator <(E a,E b)

{

return strcmp(a.name,b.name)<0;

}

int main()

{

vector<E> vector1;

vector<E>::iterator new\_end;

int sizeA,sizeB;

scanf("%d",&sizeA);

for(int i=0;i<sizeA;i++)

{

E tmp;

scanf("%s%s",tmp.name,tmp.num);

vector1.push\_back(tmp);

}

scanf("%d",&sizeB);

for(int i=0;i<sizeB;i++)

{

E tmp;

scanf("%s%s",tmp.name,tmp.num);

vector1.push\_back(tmp);

}

sort(vector1.begin(),vector1.end());

new\_end=unique(vector1.begin(),vector1.end());

vector1.erase(new\_end,vector1.end());

// new\_end=vector1.begin();

for(int i=0;i<vector1.size();i++)

{

E tmp=vector1[i];

printf("%s %s\n",tmp.name,tmp.num);

}

// cout << "Hello world!" << endl;

return 0;

}

**五子棋：**

#include <iostream>

#include <stdio.h>

using namespace std;

#define N 5

char graph[N][N];

int go[4][2]={

{1,0},

//-1,0,

{0,1},

//0,-1,

{1,1},

//-1,-1,

{1,-1}

//-1,1

};

bool isBlack(int x,int y)

{

return 0<=x&&x<N&&0<=y&&y<N&&graph[x][y]=='b';

}

bool checkLine(int x,int y,int line)

{

graph[x][y]='b';

int cnt=1,flag1=1,flag2=1;

int dx=x,dy=y,ux=x,uy=y;

while(cnt<=5)

{

if(flag1==1)

{

dx=dx+go[line][0];

dy=dy+go[line][1];

}

if(flag2==1)

{

ux=ux-go[line][0];

uy=uy-go[line][1];

}

if(isBlack(dx,dy))

cnt++;

else flag1=0;

if(isBlack(ux,uy))

cnt++;

else flag2=0;

if(!flag1&&!flag2)

break;

}

graph[x][y]='.';

if(cnt==5)

return true;

else return false;

}

int main()

{

for(int i=0;i<N;i++)

scanf("%s",graph[i]);

for(int i=0;i<N;i++)

for(int j=0;j<N;j++)

{

if(graph[i][j]=='.')

{

for(int k=0;k<4;k++)

{

//int flag=0;

if(checkLine(i,j,k))

{

printf("(%d,%d)\n",i,j);

break;

}

}

}

}

//cout << "Hello world!" << endl;

return 0;

}

**幸运数：**

#include <iostream>

#include <stdio.h>

using namespace std;

bool mark[10001];

int prime[10000];

int primeSize;

void init()

{

primeSize=0;

int i;

for(i=1;i<=10000;i++)

mark[i]=false;

for(int i=2;i<=10000;i++)

{

if(mark[i]==true) continue;

prime[primeSize++]=i;

for(int j=i\*i;j<=10000;j++)

mark[j]=true;

}

}

bool judge(int x)

{

while(x>0)

{

if(x%10==8)

return true;

x/=10;

}

return false;

}

int main()

{

int n;

while(scanf("%d",&n)!=EOF)

{

int flag=0;

if(judge(n))

{

puts("YES");

flag=1;

}

else{

for(int i=0;i<primeSize&&prime[i]<=n;i++)

{

if(n%prime[i]==0)

{

if(judge(prime[i]))

{

puts("YES");

flag=1;

}

else

{

n/=prime[i];

i--;

}

}

if(flag==1)

break;

}

}

if(flag==0)

puts("NO");

}

cout << "Hello world!" << endl;

return 0;

}

**字母排序：**

#include <iostream>

#include <stdio.h>

#include <algorithm>

#include <string.h>

using namespace std;

int main()

{

char line[100];

while(gets(line))

{

sort(line,line+strlen(line));

int c=0,m=0,y=0,len=strlen(line);

puts(line);

for(int i=0;i<len;i++)

{

if(line[i]=='C')

c++;

else if(line[i]=='M')

m++;

else {

y++;

}

}

printf("C=%d\n",c);

printf("M=%d\n",m);

printf("Y=%d\n",y);

}

cout << "Hello world!" << endl;

return 0;

}