

Пошук в глибину

Добавил(a) Administrator
02.10.13 00:00 -

```
#include "stdafx.h"
```

```
#include "fstream"
```

```
using namespace std;
```

```
ifstream cin("input.txt");
```

```
ofstream cout("output.txt");
```

```
int a[101][101],c[101],v1,v2,n,m;
```

```
void p(int k, int v)
```

```
{c[k]=v;
```

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```
if (v==v2 || k>=n) {
```

```
if (v==v2)
```

```
{
```

```
//for (int i=1;i<=k;i++)cout<<c[i]<<" ";cout<<endl;
```

```
int s=0;
```

```
for (int i=1;i<k;i++)s=s+a[c[i]][c[i+1]];
```

```
//cout<<"s="<<s<<endl;
```

```
if (s<m) m=s;
```

```
}
```

```
}
```

```
else
```

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

```
if (a[v][i]>0) p(k+1,i);
```

```
}
```

```
int main()
```

```
{int i,j,t,k;
```

```
cin>>n>>m;
```

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

```
for (j=1;j<=n;j++)a[i][j]=0;
```

```
for (k=1;k<=m;k++)
```

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```
{cin>>i>>j>>t;
```

```
a[i][j]=t;a[j][i]=t;
```

```
}
```

```
cin>>v1>>v2;
```

```
/* for (i=1;i<=n;i++){
```

```
for (j=1;j<=n;j++)
```

```
cout<<a[i][j]<<" ";
```

```
cout<<endl;
```

```
}
```

```
*/
```

```
//cout<<v1<<" "<<v2<<endl;
```

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```
m=10000000;
```

```
p(1,v1);
```

```
if (m>=10000000)m=-1;
```

```
cout<<m<<endl;
```

```
return 0;
```

```
}
```

```
program Project2;
```

```
{$APPTYPE CONSOLE}
```

```
var  a:array[1..100,1..100] of integer;
```

```
smin,i,j,k,l,n,s:integer;
```

```
rez,c:array  [1..100]of integer;
```

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```
f1,f2:text;
```

```
function f(nn,vv:integer):boolean;
```

```
var pr:boolean;
```

```
i:integer;
```

```
begin
```

```
pr:=true;
```

```
for i:=1 to nn do
```

```
if vv=c[i] then pr:=false;
```

```
f:=pr;
```

```
end;
```

```
procedure p(ni,v:integer);
```

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```
var s,ii:integer;
```

```
begin
```

```
c[ni]:=v;
```

```
if(ni=n)then begin
```

```
{***** 1}
```

```
s:=0;
```

```
for ii:=1 to ni-1 do  s:=s+a[c[ii],c[ii+1]];
```

```
s:=s+a[c[n],c[1]];
```

```
if s<smin then  begin
```

```
for ii:=1 to ni do  rez[ii]:=c[ii];
```

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smin:=s;

end;

end

else

for ii:=1 to n do

if (a[v,ii]>0)and (f(ni,ii)) then p(ni+1,ii);

end;

begin

assign(f1,'graph.dat');reset(f1);assign(f2,'graph.sol');rewrite(f2);

write('N=');

readln(n);

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for i:=1 to n do

for j:=i+1 to n do begin

a[i,j]:=random(50)+1;a[j,i]:=a[i,j];

end;

smin:=maxint;

p(1,1);

close(f1);

writeln(f2,n);

for i:=1 to n do begin

for j:=1 to n-1 do

write(f2,a[i,j]:3);

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```
writeln(f2,a[i,n]:3);
```

```
end;
```

```
writeln(f2,'-----');
```

```
for i:=1 to n-1 do  write(f2,rez[i],' ');
```

```
writeln(f2,rez[n] );
```

```
writeln(f2,smin);
```

```
close(f2);
```

```
end.
```