

Алгоритм Форда

Добавил(a) Administrator
09.10.13 22:24 -

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

```
#include "fstream"
```

```
using namespace std;
```

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

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

```
long a[101][101],v1,v2,n,m;
```

```
int main()
```

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

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

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

```
for (j=1;j<=n;j++)a[i][j]=10000000;
```

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

```
{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;
```

```
}
```

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

```
*/
```

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

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

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

```
a[i][j] = min (a[i][j], a[i][k] + a[k][j]);
```

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

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

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

```
cout<<endl;
```

```
}
```

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```
*/
```

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

```
if (a[v1][v2]>=10000000)cout<<-1<<endl;
```

```
else cout<<a[v1][v2]<<endl;
```

```
return 0;
```

```
}
```

```
program poisk_min;
```

```
{$APPTYPE CONSOLE}
```

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

```
nmin,min,i,j,k,l,n,s:integer;
```

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

```
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;
```

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begin

assign(f1,'graph.dat');reset(f1);

assign(f2,'graph.sol');rewrite(f2);

readln(f1,n);

for i:=1 to n do

for j:=1 to n do

read(f1,a[i,j]);

close(f1);

for k:=1 to n do

for i:=1 to n do

for j:=1 to n do

if $a[i,k]+a[k,j]<a[i,j]$ then

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```
a[i,j]:=a[i,k]+a[k,j];
```

```
for i:=1 to n do begin
```

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

```
writeln(f2);
```

```
end;
```

```
close(f2);
```

```
end.
```