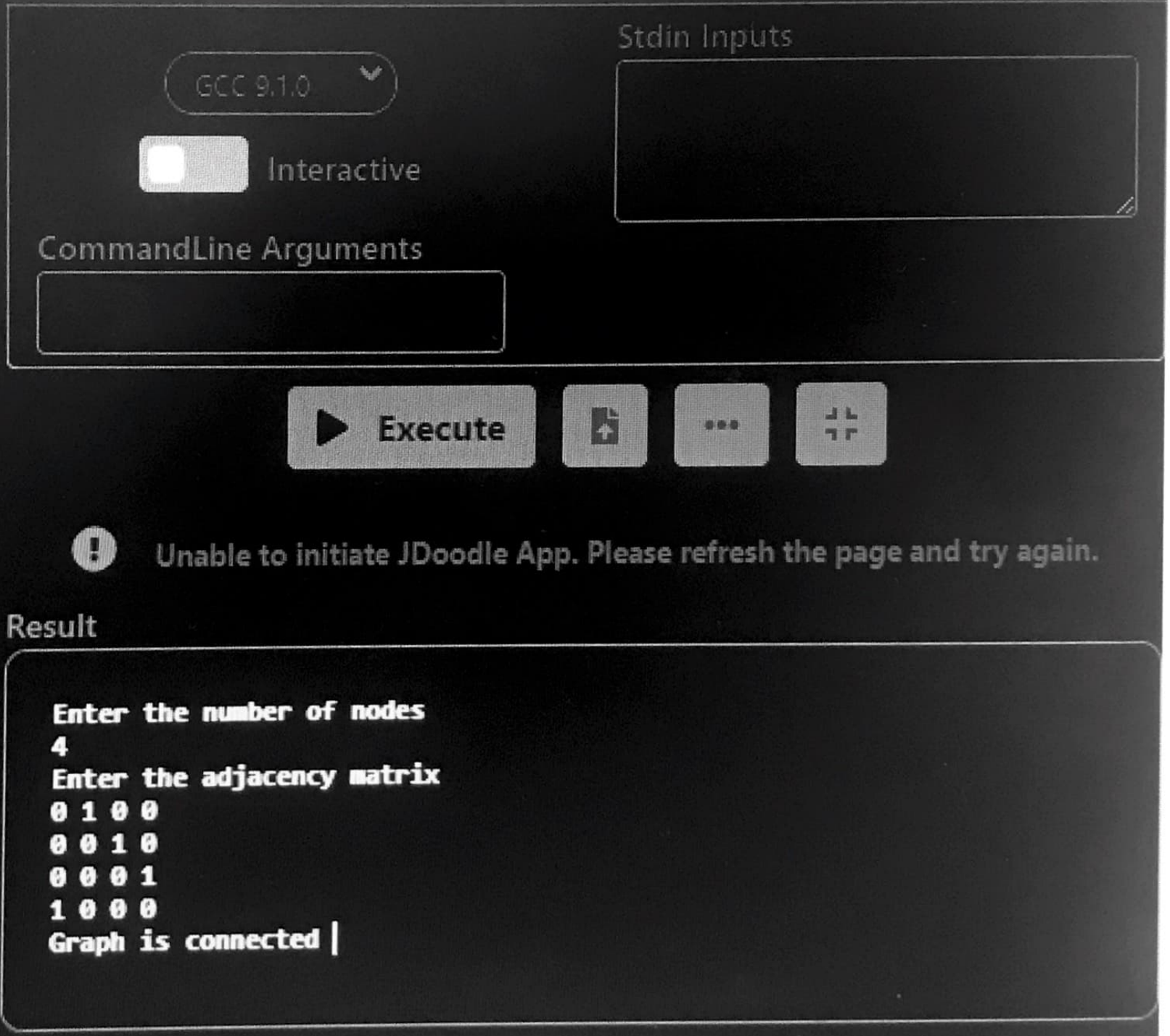
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here X *DFSpgm.c X

```c
#include<stdio.h>;
#include<conio.h>;
int a[1][10];
void dfs(int n, int cost[10][10], int u, int s[])
{int v;
s[u]=1;
for(v=0;v<n;v++)
{if((cost[u][v]==1) && (s[v]==0))
dfs(n,cost,v,s);}
}
void main()
{int n,i,j,cost[10][10],s[10],con,flag;
printf("Enter the number of nodes\n");
scanf("%d",&n);
printf("Enter the adjacency matrix\n");
{for(j=0;j<n;j++)
scanf("%d",&cost[i][j]);
}
con=0;
for(j=0;j<n;j++)
{for(i=0;i<n;i++)
s[i]=0;
dfs(n,cost,j,s);
flag=0;
for(i=0;i<n;i++)
{if(s[i]==0)
flag=1;
}
if(flag==0)
con=1;
}
if(con==1)
printf("Graph is connected\n");
else
printf("Graph is not connected\n");
}
```


Stdin Inputs
GCC 9.1.0
Interactive
CommandLine Arguments
Execute
Unable to initiate JDoodle App. Please refresh the page and try again.
Result
Enter the number of nodes
4
Enter the adjacency matrix
0 1 0 0
0 0 1 0
0 0 0 1
1 0 0 0
Graph is connected

main.cpp

```cpp
#include<iostream>
using namespace std;
void tower_hanoi(int n, char src, char temp, char dest)
 {
if(n == 1)
{
cout<<"Move"<< n<<"disc from"<<src<<" to"<<dest<<endl;
return ;
}
tower_hanoi(n - 1, src, dest, temp);
cout<<"Move"<<n<<"disc from"<<src<<"to"<<dest<<endl;
tower_hanoi(n - 1, temp, src, dest);
}
int main()
{
int x;
cout<<"Enter no of disc"<<endl;
cin>>x;
tower_hanoi(x,'A','B','C');
return 0;
}
```

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DFSpgm.c X toh.c X

```
1   #include<stdio.h>
2   #include<conio.h>
3   void towers(int n,char src,char temp,char dest)
4   {
5   if(n==1)
6   {
7   printf("move disk 1 from %c to %c \n",src,dest);
8   return;
9   }
10  towers(n-1,src,dest,temp);
11  printf("move disk %d from %c to %c \n",n,src,dest);
12  towers(n-1,temp,src,dest);
13  }
14  main()
15  {
16  int n;
17  printf("enter the number of disks:\n");
18  scanf("%d",&n);
19  towers(n,'s','t','d');
20  }
21
```

input

```
Enter no of disc
4
Move1disc fromA toB
Move2disc fromAtoC
Move1disc fromB toC
Move3disc fromAtoB
Move1disc fromC toA
Move2disc fromCtoB
Move1disc fromA toB
Move4disc fromAtoC
Move1disc fromB toC
Move2disc fromBtoA
Move1disc fromC toA
Move3disc fromBtoC
Move1disc fromA toB
Move2disc fromAtoC
Move1disc fromB toC


...Program finished with exit code 0
Press ENTER to exit console.
```