

Floyd_program - [Floyd_program.dev] - Dev-C++ 5.11

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(globals)

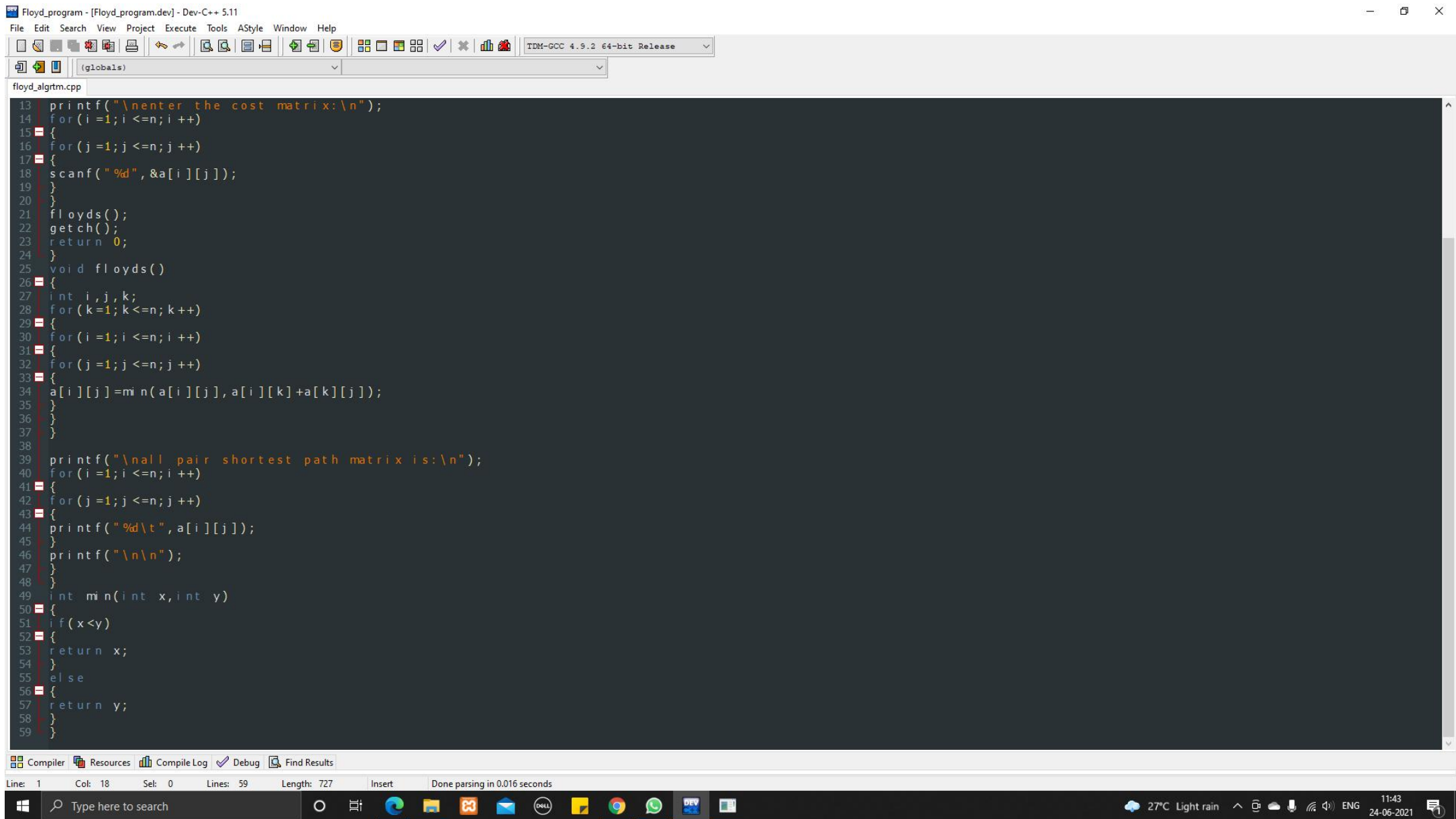
floyd_algrtm.cpp

```
1 #include<stdio.h>
2 #include<conio.h>
3 #include<stdlib.h>
4 int a[10][10],n;
5 void floyds();
6 int min(int,int);
7 int main()
8 {
9     int i,j;
10    system("cls");
11    printf("\nenter the no. of vertices:\t");
12    scanf("%d",&n);
13    printf("\nenter the cost matrix:\n");
14    for(i=1;i<=n;i++)
15    {
16        for(j=1;j<=n;j++)
17        {
18            scanf("%d",&a[i][j]);
19        }
20    }
21    floyds();
22    getch();
23    return 0;
24 }
25 void floyds()
26 {
27     int i,j,k;
28     for(k=1;k<=n;k++)
29     {
30         for(i=1;i<=n;i++)
31         {
32             for(j=1;j<=n;j++)
33             {
34                 a[i][j]=min(a[i][j],a[i][k]+a[k][j]);
35             }
36         }
37     }
38
39     printf("\nall pair shortest path matrix is:\n");
40     for(i=1;i<=n;i++)
41     {
42         for(j=1;j<=n;j++)
43         {
44             printf("%d\t",a[i][j]);
45         }
46         printf("\n\n");
47     }
48 }
```

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Line: 1 Col: 18 Sel: 0 Lines: 59 Length: 727 Insert Done parsing in 0.016 seconds

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enter the no. of vertices: 4

enter the cost matrix:

```
9999 9999 3 9999
 2 9999 9999 9999
9999 7 9999 1
 6 9999 9999 9999
```

all pair shortest path matrix is:

```
10 10 3 4
2 12 5 6
7 7 10 1
6 16 9 10
```



Type here to search



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