

C:\Users\SAMVID VERMA\Documents\diagonal.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

globals

Project Classes Debug linkedlistthacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp diagonal.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int a[4][4];
6     for(int i=0;i<4;i++)
7     {
8         for(int j=0;j<4;j++)
9         {
10             cin>>a[i][j];
11         }
12     }
13     int f=0;
14     for(int k=0;k<4;k++)
15     {
16         for(int l=0;l<4;l++)
17         {
18             if(k==l)
19             {
20                 cout<<a[k][l]<<" ";
21             }
22             else
23             {
24                 cout<<"0"<<" ";
25             }
26         }
27         cout<<"\n";
28     }
29 }
30
31
32
33
34
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\diagonal.exe
- Output Size: 1.83193492889404 MiB
- Compilation Time: 1.00s

Line: 34 Col: 1 Sel: 0 Lines: 34 Length: 517 Insert Done parsing in 0.015 seconds

C:\Users\SAMVID VERMA\Documents\diagonal.exe

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
1 0 0 0
0 6 0 0
0 0 11 0
0 0 0 16
-----
Process exited after 11.36 seconds with return value 0
Press any key to continue . . .
```

C:\Users\SAMVID VERMA\Documents\tridiagonal matrix.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug linkedlistthacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp diagonal.cpp tridiagonal matrix.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int a[4][4];
6     for(int i=0;i<4;i++)
7     {
8         for(int j=0;j<4;j++)
9         {
10             cin>>a[i][j];
11         }
12     }
13     int f=0;
14     for(int k=0;k<4;k++)
15     {
16         for(int l=0;l<4;l++)
17         {
18             if(k-l==1 || k-l==0 || l-k==1)
19             {
20                 cout<<a[k][l]<<" ";
21             }
22             else
23             {
24                 a[k][l]=0;
25                 cout<<a[k][l]<<" ";
26             }
27         }
28         cout<<"\n";
29     }
30 }
31
32
33
34
35
36
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\tridiagonal matrix.exe
- Output Size: 1.83244514465332 MiB
- Compilation Time: 1.02s

Line: 1 Col: 1 Set: 0 Lines: 36 Length: 560 Insert Done parsing in 0.016 seconds

C:\Users\SAMVID VERMA\Documents\tridiagonal matrix.exe

```
1 2 0 0
5 6 7 0
0 10 11 12
0 0 15 16
```

Process exited after 373 seconds with return value 0
Press any key to continue . . .

C:\Users\SAMVID VERMA\Documents\lowertrinagle.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

globals

Project Classes Debug linkedliststacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp diagonal.cpp tridiagonal matrix.cpp lowertrinagle.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int a[4][4];
6     for(int i=0;i<4;i++)
7     {
8         for(int j=0;j<4;j++)
9         {
10             cin>>a[i][j];
11         }
12     }
13     int f=0;
14     for(int k=0;k<4;k++)
15     {
16         for(int l=0;l<4;l++)
17         {
18             if(k-l>=0)
19             {
20                 cout<<a[k][l]<<" ";
21             }
22             else
23             {
24                 a[k][l]=0;
25                 cout<<a[k][l]<<" ";
26             }
27         }
28         cout<<"\n";
29     }
30 }
31
32
33
34
35
36
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\lowertrinagle.exe
- Output Size: 1.83193492889404 MiB
- Compilation Time: 1.03s

Line: 1 Col: 1 Set: 0 Lines: 36 Length: 540 Insert Done parsing in 0.015 seconds

C:\Users\SAMVID VERMA\Documents\lowertrinagle.exe

```
1
2
3
4
5
6
7
8
9
10
11
12
13
14
1516
16
1 0 0 0
5 6 0 0
9 10 11 0
13 14 1516 16
-----
Process exited after 10.96 seconds with return value 0
Press any key to continue . . .
```

C:\Users\SAMVID VERMA\Documents\uppertri.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

globals

Project Classes Debug linkedliststacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp diagonal.cpp tridiagonal matrix.cpp lowertrianagle.cpp uppertri.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int t;
6     cout<<"Enter order of matrix"<<endl;
7     cin>>t;
8     cout<<"Enter elements of matrix"<<endl;
9     int a[t][t];
10    for(int i=0;i<t;i++)
11    {
12        for(int j=0;j<t;j++)
13        {
14
15            cin>>a[i][j];
16        }
17        int f=0;
18        for(int k=0;k<t;k++)
19        {
20            for(int l=0;l<t;l++)
21            {
22                if(l-k>=0)
23                {
24                    cout<<a[k][l]<<" ";
25                }
26                else
27                {
28                    a[k][l]=0;
29                    cout<<a[k][l]<<" ";
30                }
31            }
32            cout<<"\n";
33        }
34    }
35 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\uppertri.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 1.00s

Line: 1 Col: 1 Set: 0 Lines: 35 Length: 604 Insert Done parsing in 0.016 seconds

C:\Users\SAMVID VERMA\Documents\uppertri.exe

```
Enter order of matrix
4
Enter elements of matrix
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
1 2 3 4
0 6 7 8
0 0 11 12
0 0 0 16

-----
Process exited after 15.24 seconds with return value 0
Press any key to continue . . .
```

C:\Users\SAMVID VERMA\Documents\symetric.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

globals

Project Classes Debug

linkedListStacker.cpp deleteAll.cpp midLinkedList.cpp reverse.cpp reverselinkedList.cpp matrix.cpp
diagonal.cpp tridiagonal matrix.cpp lowertriangle.cpp uppertri.cpp symetric.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int t;
6     cout<<"Enter order of matrix"<<endl;
7     cin>>t;
8     cout<<"Enter elements of matrix"<<endl;
9     int a[t][t];
10    for(int i=0;i<t;i++)
11    {
12        for(int j=0;j<t;j++)
13        {
14            cin>>a[i][j];
15        }
16        int f=0;
17        for(int k=0;k<t;k++)
18        {
19            for(int l=0;l<t;l++)
20            {
21                cout<<a[k][l]<<" ";
22                if(a[l][k]!=a[k][l])
23                {
24                    f=1;
25                }
26            }
27            cout<<"\n";
28        }
29        if(f==1)
30        {
31            cout<<"Not a symetric matrix";
32        }
33        else
34        {
35            cout<<"symetric matrix";
36        }
37    }
38 }
39
40
41
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\symetric.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 1.02s

Line: 1 Col: 1 Set: 0 Lines: 41 Length: 632 Insert Done parsing in 0.031 seconds

C:\Users\SAMVID VERMA\Documents\symetric.exe

```
Enter order of matrix
3
Enter elements of matrix
1 2 3
2 1 4
3 4 1
symetric matrix
-----
Process exited after 39.49 seconds with return value 0
Press any key to continue . . .
```


C:\Users\SAMVID VERMA\Documents\sparse__sparse.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

linkedliststacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp
diagonal.cpp tridiagonal matrix.cpp lowertringle.cpp uppertri.cpp symmetric.cpp sparse__sparse.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int m,n;
6     cout<<"Enter order of matrix"<<endl;
7     cin>>m;
8     cin>>n;
9     cout<<"Enter elements of matrix"<<endl;
10    int a[m][n];
11    for(int i=0;i<m;i++)
12    {
13        for(int j=0;j<n;j++)
14        {
15
16            cin>>a[i][j];
17        }
18    }
19    int f=0;
20    for(int k=0;k<m;k++)
21    {
22        for(int l=0;l<n;l++)
23        {
24
25            if(a[k][l]!=0)
26            {
27                f++;
28            }
29        }
30        cout<<"\n";
31    }
32    int k[3][f];
33    int y=0;
34    for(int i=0;i<n;i++)
35    {
36        for(int j=0;j<n;j++)
37        {
38            if(a[i][j]!=0)
39            {
40
41                k[2][y]=a[i][j];
42                k[0][y]=i;
43                k[1][y]=j;
44                y++;
45            }
46        }
47    }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\sparse__sparse.exe
- Output Size: 1.83360481262207 MiB
- Compilation Time: 1.02s

Line: 28 Col: 14 Sel: 0 Lines: 61 Length: 958 Insert Done parsing in 0.016 seconds

C:\Users\SAMVID VERMA\Documents\sparse__sparse.exe

```
Enter order of matrix
3
3
Enter elements of matrix
1
0
0
0
0
0
1

0112
0122
1231

-----
Process exited after 38.32 seconds with return value 0
Press any key to continue . . .
```

91°F Partly sunny

A screenshot of a Windows taskbar. On the left, there are several application icons: a folder, a cube, a blue 'A' logo, a red 'M' logo, a Google Chrome icon, a document icon, a 'DEV' icon, and a document icon. On the right, the system tray shows a network icon, the text 'ENG IN', a speaker icon, a battery icon, the time '18:34', and the date '25-08-2022'.

C:\Users\SAMVID VERMA\Documents\sparse_addition.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

Project Classes Debug

linkedliststacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp diagonal.cpp
tridiagonal matrix.cpp lowertriangle.cpp uppertri.cpp symmetric.cpp sparse__sparse.cpp Transpose_sparse.cpp [*] sparse_addition.cpp

```
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      int m,n;
6      cout<<"Enter order of matrix"<<endl;
7      cin>>m;
8      cin>>n;
9      cout<<"Enter elements of matrix"<<endl;
10     int a[m][n];
11     for(int i=0;i<m;i++)
12     {
13         for(int j=0;j<n;j++)
14         {
15             cin>>a[i][j];
16         }
17     }
18     int o,p;
19     cout<<"Enter order of matrix"<<endl;
20     cin>>o;
21     cin>>p;
22     cout<<"Enter elements of matrix"<<endl;
23     int b[o][p];
24     for(int i=0;i<o;i++)
25     {
26         for(int j=0;j<p;j++)
27         {
28             cin>>b[i][j];
29         }
30     }
31     int f=0;
32
33     for(int k=0;k<m;k++)
34     {
35         for(int l=0;l<n;l++)
36         {
37             if(a[k][l]!=0 || b[k][l]!=0)
38             {
39                 f+=1;
40             }
41         }
42     }
43     cout<<"\n";
44 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\sparse_addition.exe
- Output Size: 1.83458232879639 MiB
- Compilation Time: 1.02s

Line: 1 Col: 2 Sel: 0 Lines: 73 Length: 1273 Insert Done parsing in 0.016 seconds

C:\Users\SAMVID VERMA\Documents\sparse_addition.exe

```
Enter order of matrix
3
3
Enter elements of matrix
1
2
0
0
0
1
2
0
0
Enter order of matrix
3
3
Enter elements of matrix
1
0
0
0
0
2
0
0
0

0 0 1 1 2 2
0 1 0 2 0 2
2 2 1 1 4 9

-----
Process exited after 44 seconds with return value 0
Press any key to continue . . .
```


C:\Users\SAMVID VERMA\Documents\suuuuu.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

globals

Project Classes Debug

linkedListStacker.cpp deleteAll.cpp midLinkedList.cpp reverse.cpp reverselinkedList.cpp matrix.cpp
diagonal.cpp tridiagonal matrix.cpp lowertriangle.cpp uppertri.cpp symmetric.cpp sparse_sparse.cpp
Transpose_sparse.cpp [*] sparse_addition.cpp sarapa.cpp suuuuu.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int t;
6     cout<<"Enter order of matrix"<<endl;
7     cin>>t;
8     cout<<"Enter elements of matrix"<<endl;
9     int a[t][t];
10    for(int i=0;i<t;i++)
11    {
12        for(int j=0;j<t;j++)
13        {
14            cin>>a[i][j];
15        }
16    }
17    int f=0;
18    int s=0,S=0;
19    for(int k=0;k<t;k++)
20    {
21        s=0;
22        S=0;
23        for(int l=0;l<t;l++)
24        {
25            s=s+a[k][l];
26            S=S+a[l][k];
27        }
28        cout<<"The Sum Of "<<(k+1)<<" is-->"<<s<<endl;
29        cout<<"The Sum Of "<<(k+1)<<" is-->"<<S<<endl;
30    }
31 }
32
33
34
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\suuuuu.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 1.00s

Line: 1 Col: 1 Sel: 0 Lines: 34 Length: 610 Insert Done parsing in 0.016 seconds

C:\Users\SAMVID VERMA\Documents\suuuuu.exe

```
4 Enter elements of matrix
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
```

The Sum Of 1 is-->10
The Sum Of 1 is-->17
The Sum Of 2 is-->26
The Sum Of 2 is-->14
The Sum Of 3 is-->10
The Sum Of 3 is-->12
The Sum Of 4 is-->10
The Sum Of 4 is-->13

Process exited after 14.26 seconds with return value 0
Press any key to continue . . .

C:\Users\SAMVID VERMA\Documents\spiral.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

globals

Project Classes Debug

linkliststacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp
diagonal.cpp tridiagonal matrix.cpp lowertrianagle.cpp uppertri.cpp symmetric.cpp sparse__sparse.cpp
Transpose_sparse.cpp [*] sparse_additton.cpp sarapa.cpp suuuuum.cpp spiral.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int m,n=0;
6     cin>>m>>n;
7     int a[m][n];
8     for(int i=0;i<m;i++)
9     {
10         for(int j=0;j<n;j++)
11         {
12             cin>>a[i][j];
13         }
14     }
15     int left=0,right=m-1,top=0,bottom=n-1;
16     int d=0;int x=0;
17     while(x<(m*n))
18     {
19         if(d==0)
20         {
21             for(int i=left;i<=right;i++)
22             {
23                 cout<<a[top][i]<<" ";
24                 x++;
25             }
26             top++;
27         }
28         else if(d==1)
29         {
30             for(int i=top;i<=bottom;i++)
31             {
32                 cout<<a[i][right]<<" ";
33                 x++;
34             }
35             right--;
36         }
37         else if(d==2)
38         {
39             for(int i=right;i>=left;i--)
40             {
41                 cout<<a[i][left]<<" ";
42                 x++;
43             }
44             left++;
45         }
46         d++;
47         if(d==4) d=0;
48     }
49 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\spiral.exe
- Output Size: 1.83291149139404 MiB
- Compilation Time: 1.00s

Line: 1 Col: 1 Set: 0 Lines: 63 Length: 704 Insert Done parsing in 0 seconds

C:\Users\SAMVID VERMA\Documents\spiral.exe

```
1 2 3 4 8 12 16 15 14 13 9 5
```

C:\Users\SAMVID VERMA\Documents\spirals.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

globals

Project Classes Debug

linklisthacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp
diagonal.cpp tridiagonal matrix.cpp lowertrianagle.cpp uppertri.cpp symmetric.cpp sparse_sparse.cpp
Transpose_sparse.cpp [*] sparse_addition.cpp sarapa.cpp suuuuum.cpp spiral.cpp spirak.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int m=0;
6     cin>>m;
7     int a[m][m];
8
9     int left=0,right=m-1,top=0,bottom=m-1;
10    int d=0;int x=1;
11    while(x<=(m*m))
12    {
13        if(d==0)
14        {
15            for(int i=left;i<=right;i++)
16            {
17                a[top][i]=x;
18                x++;
19            }
20            top++;
21        }
22        else if(d==1)
23        {
24            for(int i=top;i<=bottom;i++)
25            {
26                a[i][right]=x;
27                x++;
28            }
29            right--;
30        }
31        else if(d==2)
32        {
33            for(int i=right;i>=left;i--)
34            {
35                a[bottom][i]=x;
36                x++;
37            }
38            bottom--;
39        }
40        else if(d==3)
41        {
42            for(int i=left;i<=right;i++)
43            {
44                a[i][top]=x;
45                x++;
46            }
47            top++;
48        }
49        d++;
50        if(d==4) d=0;
51        x++;
52    }
53    for(int i=0;i<m;i++)
54    {
55        for(int j=0;j<m;j++)
56        {
57            cout<<a[i][j]<<" ";
58        }
59        cout<<endl;
60    }
61    return 0;
62 }
```

Compiler Resources Compile Log Debug Find Results Close

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\spirals.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 1.02s

Line: 1 Col: 1 Set: 0 Lines: 65 Length: 773 Insert Done parsing in 0.016 seconds

C:\Users\SAMVID VERMA\Documents\spirals.exe

```
4
1 2 3 4
12 13 14 5
11 16 15 6
10 9 8 7
-----
Process exited after 5.379 seconds with return value 0
Press any key to continue . . .
```

C:\Users\SAMVID VERMA\Documents\saddle_point.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug

linklistthacker.cpp deleteall.cpp midlinkedlist.cpp reverse.cpp reverselinkedlist.cpp matrix.cpp
diagonal.cpp tridiagonal matrix.cpp lowertrianagle.cpp uppertri.cpp symetric.cpp sparse__sparse.cpp
Transpose_sparse.cpp [*] sparse_additton.cpp sarapa.cpp suuuuum.cpp spiral.cpp spiralk.cpp saddle_point.cpp

```
1 #include<iostream>
2 using namespace std;
3 int main()
4 {
5     int t;
6     cout<<"Enter order of matrix"<<endl;
7     cin>>t;
8     cout<<"Enter elements of matrix"<<endl;
9     int a[t][t];
10    for(int i=0;i<t;i++)
11    {
12        for(int j=0;j<t;j++)
13        {
14            cin>>a[i][j];
15        }
16    }
17    for(int i=0;i<t;i++)
18    {
19        int max1=0;
20        int max2=0;
21        for(int j=0;j<t;j++)
22        {
23            if(a[i][j]>max1)
24            {
25                max1=a[i][j];
26            }
27            if(a[j][i]>max2)
28            {
29                max2=a[j][i];
30            }
31        }
32        cout<<"the maximum of the row is -->"<<max1<<endl;
33        cout<<"the maximum of the column is -->"<<max2<<endl;
34    }
35 }
36
37
38
39
40
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\SAMVID VERMA\Documents\saddle_point.exe
- Output Size: 1.83309745788574 MiB
- Compilation Time: 1.02s

Line: 29 Col: 32 Sel: 0 Lines: 40 Length: 770 Insert Done parsing in 0.015 seconds

C:\Users\SAMVID VERMA\Documents\saddle_point.exe

```
Enter order of matrix
3
Enter elements of matrix
1
2
3
4
5
6
7
8
9
the maximum of the row is -->3
the maximum of the column is -->7
the maximum of the row is -->6
the maximum of the column is -->8
the maximum of the row is -->9
the maximum of the column is -->9

-----
Process exited after 8.106 seconds with return value 0
Press any key to continue . . .
```