

```
1 //Question 1.
2 #include<stdio.h>
3 int main()
4 {
5     int a[10][10],m,n,sum=0,i,j;
6     printf("Enter the number of rows : ");
7     scanf("%d",&m);
8     printf("Enter the number of columns : ");
9     scanf("%d",&n);
10    printf("Enter the elements of the Matrix of order %dx%d : ",m,n);
11    for(i=0;i<m;i++)
12    {
13        for(j=0;j<n;j++)
14        {
15            scanf("%d",&a[i][j]);
16        }
17    }
18    printf("The matrix is : \n\n",m,n);
19    for(i=0;i<m;i++)
20    {
21        for(j=0;j<n;j++)
22        {
23            printf("%d ",a[i][j]);
24        }
25        printf("\n");
26    }
27    for(i=0;i<m;i++)
28    {
29        for(j=0;j<n;j++)
30        {
31            sum=sum+a[i][j];
32        }
33    }
34    printf("The sum of all elements in the matrix = %d",sum);
35    return 0;
36 }
```

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\15.07.2021\Insertion Sort.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.41s

☐ Shorten compiler paths

D:\C\15.07.2021\Add_Matrix.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

```
Project Classes Debug Add D:\C\15.07.2021\Add_Matrix.exe
1 Enter the number of rows : 3
2 Enter the number of columns : 3
3 Enter the elements of the Matrix of order 3x3 : 1
4
5
6
7
8
9
10
11
12 The matrix is :
13
14
15 1 2 3
16 4 5 6
17 8 9
18 The sum of all elements in the matrix = 45
19 -----
20 Process exited after 15.37 seconds with return value 0
21 Press any key to continue . . .
22
23
24
25
26
27
28
29
30
31
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\15.07.2021\Add_Matrix.exe
- Output Size: 129.7734375 KiB
- Compilation Time: 0.24s

☐ Shorten compiler paths

Line: 30 Col: 3 Sel: 0 Lines: 31 Length: 747 Insert Done parsing in 0 seconds

```
1 //Question 2.
2 #include<stdio.h>
3 int main()
4 {
5     int a[10][10],b[10][10],i,j,m,n;
6     printf("Enter the number of rows : ");
7     scanf("%d",&m);
8     printf("Enter the number of columns : ");
9     scanf("%d",&n);
10    printf("Enter the elements of matrix of order %dx%d : ",m,n);
11    for(i=0;i<m;i++)
12    {
13        for(j=0;j<n;j++)
14            scanf("%d",&a[i][j]);
15    }
16    printf("The matrix is : \n",m,n);
17    for(i=0;i<m;i++)
18    {
19        for(j=0;j<n;j++)
20        {
21            printf("%d ",a[i][j]);
22        }
23        printf("\n");
24    }
25    for(i=0;i<m;i++)
26    {
27        for(j=0;j<n;j++)
28        {
29            b[i][j]=a[j][i];
30        }
31    }
32    printf("The transpose of the matrix is :\n");
33    for(i=0;i<m;i++)
34    {
35        for(j=0;j<n;j++)
36            printf("%d ",b[i][j]);
37        printf("\n");
38    }
39    return 0;
40 }
```

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\15.07.2021\ATwoMatrix.exe
- Output Size: 129.9423828125 KiB
- Compilation Time: 0.25s

☐ Shorten compiler paths

D:\C\15.07.2021\Transpose.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project

Classes

Debug

D:\C\15.07.2021\Transpose.exe

Enter the number of rows : 3
Enter the number of columns : 3
Enter the elements of matrix of order 3x3 : 1
2
3
4
5
6
7
8
9
The matrix is :
1 2 3
4 5 6
7 8 9
The transpose of the matrix is :
1 4 7
2 5 8
3 6 9

Process exited after 14.06 seconds with return value 0
Press any key to continue . . .

34

35

36

return 0;

Compiler

Resources

Compile Log

Debug

Find Results

Close

Abort Compilation

☐ Shorten compiler paths

- Warnings: 0
- Output Filename: D:\C\15.07.2021\Transpose.exe
- Output Size: 129.9423828125 KiB
- Compilation Time: 0.36s

Line: 36

Col: 3

Sel: 0

Lines: 36

Length: 785

Insert

Done parsing in 0 seconds

Windows Start

Type here to search

Taskbar Icons

System Tray

35°C Haze

16:50

15-07-2021

```
1 //Question 3.
2 #include<stdio.h>
3 int main()
4 {
5     int i,j,m,n,a[10][10],b[10][10],c[10][10];
6     printf("Enter the number of rows : ");
7     scanf("%d",&m);
8     printf("Enter the number of columns : ");
9     scanf("%d",&n);
10    printf("Enter the elements of first matrix : \n",m,n);
11    for(i=0;i<m;i++)
12        for(j=0;j<n;j++)
13            scanf("%d",&a[i][j]);
14    printf("Enter the elements of second matrix : \n",m,n);
15    for(i=0;i<m;i++)
16        for(j=0;j<n;j++)
17            scanf("%d",&b[i][j]);
18    for(i=0;i<m;i++)
19        for(j=0;j<n;j++)
20            c[i][j]=a[i][j] + b[i][j];
21    printf("The resultant matrix is : \n");
22    for(i=0;i<m;i++)
23    {
24        for(j=0;j<n;j++)
25            printf("%d ",c[i][j]);
26        printf("\n");
27    }
28    return 0;
29 }
```

Abort Compilation

```
- Warnings: 0
- Output Filename: D:\C\15.07.2021\Transpose.exe
- Output Size: 129.9423828125 KiB
- Compilation Time: 0.36s
```

☐ Shorten compiler paths

D:\C\15.07.2021\ATwoMatrix.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

Project Classes Debug

D:\C\15.07.2021\ATwoMatrix.exe

```
Enter the number of rows : 3
Enter the number of columns : 3
Enter the elements of first matrix :
1
2
3
4
5
6
7
8
9
Enter the elements of second matrix :
1
2
3
4
5
6
7
8
9
The resultant matrix is :
2 4 6
8 10 12
14 16 18

-----
Process exited after 21.96 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

```
- Warnings: 0
- Output Filename: D:\C\15.07.2021\ATwoMatrix.exe
- Output Size: 129.9423828125 KiB
- Compilation Time: 0.25s
```

☐ Shorten compiler paths

Line: 29 Col: 3 Sel: 0 Lines: 29 Length: 748 Insert Done parsing in 0 seconds



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35°C Haze



16:51
15-07-2021


```
1 //Question 4.
2 #include<stdio.h>
3 int main()
4 {
5     int a[10][10],b[10][10],c[10][10],i,j,k,m,n,o,p;
6     printf("Enter the number of rows : ");
7     scanf("%d",&m);
8     printf("Enter the number of columns : ");
9     scanf("%d",&n);
10    printf("Enter the elements of first matrix : ",m,n);
11    for(i=0;i<m;i++)
12        for(j=0;j<n;j++)
13            scanf("%d",&a[i][j]);
14    printf("Enter the number of rows : ");
15    scanf("%d",&o);
16    printf("Enter the number of columns : ");
17    scanf("%d",&p);
18    printf("Enter the elements of second matrix : ",m,n);
19    for(i=0;i<o;i++)
20        for(j=0;j<p;j++)
21            scanf("%d",&b[i][j]);
22    for(i=0;i<m;i++)
23        for(j=0;j<p;j++)
24        {
25            c[i][j]=0;
26            for(k=0;k<n;k++)
27                c[i][j] += a[i][k] * b[k][j];
28        }
29    printf("The resultant matrix is : \n");
30    for(i=0;i<m;i++)
31    {
32        for(j=0;j<p;j++)
33            printf("%d ",c[i][j]);
34        printf("\n");
35    }
36    return 0;
37 }
```

Abort Compilation

- Warnings: 0
- Output Filename: D:\C\15.07.2021\ATwoMatrix.exe
- Output Size: 129.9423828125 KiB
- Compilation Time: 0.25s

☐ Shorten compiler paths

Line: 37 Col: 3 Sel: 0 Lines: 37 Length: 944 Insert Done parsing in 0 seconds



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16:53
15-07-2021

D:\C\15.07.2021\Mul_Matrix.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

```
Project Classes Debug Add D:\C\15.07.2021\Mul_Matrix.exe
1 Enter the number of rows : 2
2 Enter the number of columns : 3
3 Enter the elements of first matrix : 1
4 2
5 3
6 4
7 5
8 6
9
10 Enter the number of rows : 3
11 Enter the number of columns : 3
12 Enter the elements of second matrix : 1
13 2
14 3
15 4
16 5
17 6
18 7
19 8
20 9
21 The resultant matrix is :
22 30 36 42
23 66 81 96
24
25 -----
26
27 Process exited after 33.03 seconds with return value 0
28 Press any key to continue . . .
29
30
31
32
33     printf("%d ",c[i][j]);
34     printf("\n");
35 }
36 return 0;
37 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Output Size: 129.9423828125 KiB
- Compilation Time: 0.25s

☐ Shorten compiler paths

Line: 37 Col: 3 Sel: 0 Lines: 37 Length: 944 Insert Done parsing in 0 seconds


```
1 //Question 5.
2 #include <stdio.h>
3 int main()
4 {
5     int array[100], n, a, b, position, tmp;
6     printf("Enter number of elements\n");
7     scanf("%d", &n);
8     printf("Enter %d integers\n", n);
9     for (a=0; a<n; a++)
10         scanf("%d", &array[a]);
11     for (a=0; a<(n-1); a++)
12     {
13         position= a;
14         for (b=a+1; b<n; b++)
15         {
16             if (array[position] > array[b])
17                 position= b;
18         }
19         if (position!= a)
20         {
21             tmp = array[a];
22             array[a]= array[position];
23             array[position]= tmp;
24         }
25     }
26     printf("The sorted list in ascending order using selection sort is:\n");
27     for (a=0; a<n; a++)
28         printf("%d\n", array[a]);
29     return 0;
30 }
```

Abort Compilation

- Output Size: 129.9423828125 KiB
- Compilation Time: 0.25s

☐ Shorten compiler paths

Line: 30 Col: 3 Sel: 0 Lines: 30 Length: 671 Insert Done parsing in 0 seconds



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16:54
15-07-2021

D:\C\15.07.2021\Selection Sort.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

D:\C\15.07.2021\Selection Sort.exe

```
Enter number of elements
10
Enter 10 integers
4
6
8
10
2
1
3
5
7
9
The sorted list in ascending order using selection sort is:
1
2
3
4
5
6
7
8
9
10

-----
Process exited after 22.06 seconds with return value 0
Press any key to continue . . .
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

- Output Size: 128.7705078125 KiB
- Compilation Time: 0.25s

☐ Shorten compiler paths

Line: 30 Col: 3 Sel: 0 Lines: 30 Length: 671 Insert Done parsing in 0 seconds



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16:55
15-07-2021



```
1 //Question 6.
2 #include <stdio.h>
3 int main()
4 {
5     int n, array[1000], a, b, key, flag = 0;
6
7     printf("Enter number of elements : \n");
8     scanf("%d", &n);
9     printf("Enter %d integers : \n", n);
10    for (a=0; a<n; a++)
11        scanf("%d", &array[a]);
12    for (a=1; a<=n-1; a++)
13    {
14        key = array[a];
15
16        for (b=a-1; b>=0; b--)
17        {
18            if (array[b] > key)
19            {
20                array[b+1] = array[b];
21                flag = 1;
22            }
23            else
24                break;
25        }
26        if (flag)
27            array[b+1] = key;
28    }
29    printf("Sorted list in ascending order using insertion sort is : \n");
30    for (a=0; a<=n-1; a++)
31    {
32        printf("%d\n", array[a]);
33    }
34    return 0;
35 } |
36
37
```

Abort Compilation

- Output Size: 128.7705078125 KiB
- Compilation Time: 0.25s

☐ Shorten compiler paths

Line: 35 Col: 3 Sel: 0 Lines: 37 Length: 665 Insert Done parsing in 0 seconds



Type here to search



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ENG

16:55
15-07-2021

