```
Start here X 1.c X 2.c X 3.c X 4.c X 5.c X 6.c X *7.c X *8.c X 9.c X *15.c X *11.c X
          #include<stdio.h>
     1
     2
          int main()
     3
         \Box{
     4
               int m1, n1, m2, n2, i, j;
     5
               printf("Enter row & column for a matrix = ");
     6
               scanf("%d %d", &m1, &n1);
     7
               printf("Enter row & column for b matrix = ");
     8
               scanf ("%d %d", &m2, &n2);
     9
               int a[100][100],b[100][100],c[100][100];
    10
               while (m2!=m1&&n1!=n2)
    11
    12
                   printf(" error m2!=m1&n1!=n1\n");
    13
               printf("Enter row & column for a matrix = ");
    14
               scanf("%d %d", &m1, &n1);
    15
               printf("Enter row & column for b matrix = ");
    16
               scanf("%d %d", &m2, &n2);
    17
    18
               // input 1st mtrix
    19
               printf("Enter 1st matrix :\n");
    20
               for (i=0; i<m1; i++)
    21
    22
                   for (j=0; j<n1; j++)</pre>
    23
                   {
                        scanf("%d", &a[i][j]);
    24
    25
    26
    27
               //input 2nd matrix
    28
               printf("Enter 2nd matrix :\n");
    29
               for (i=0; i<m2; i++)
    30
    31
                   for (j=0; j<n2; j++)
    32
                        scanf("%d", &b[i][j]);
    33
    34
    35
    36
               //print 1st matrix
```

```
scanf("%d", &b[i][j]);
33
                                                     Enter row & column for a matrix = 3 3
                                                     Enter row & column for b matrix = 3 3
36
         /print lst matrix
                                                     Enter 1st matrix :
         printf("\n\nlst matrix \n ");
38
         for(i=0;i<ml;i++)
                                                     1 2 3
                                                     4 5 6
            printf("\t"):
41
42
            for(j=0;j<n1;j++)
                                                     7 8 9
                                                     Enter 2nd matrix :
43
                printf("%d ",a[i][j]);
                                                     11 22 33
44
45
46
47
48
                                                     44 55 66
            printf("\n");
                                                     77 88 99
        //printf 2nd matrix
printf("\n\n2nd matrix \n ");
49
         for (i=0; i<m2; i++)
            printf("\t");
                                                     1st matrix
52
            for (j=0; j<n2; j++)
                                                                1 2 3
53
54
55
                                                                4 5 6
                printf("%d ",b[i][j]);
                                                                7 8 9
56
57
58
             printf("\n");
59
60
         printf("sum of a & b matrix \n");
                                                     2nd matrix
                                                                11 22 33
61
62
            printf("\t");
                                                                44 55 66
63
64
                                                                77 88 99
               c[i][j]=a[i][j]+b[i][j];
printf("%d ",c[i][j]);
                                                     sum of a & b matrix
65
66
                                                                12 24 36
                                                                48 60 72
68
             printf("\n");
69
70
71
                                                                84 96 108
         return 0;
72
73
74
                                                     Process returned 0 (0x0)
                                                                                          execution time : 30.027 s
                                                     Press any key to continue.
```

```
Start here X 1.c X 2.c X 3.c X 4.c X 5.c X 6.c X *7.c X *8.c X 9.c X *15.c X *11.c X
          #include<stdio.h>
     2
          int main()
     3
        □ {
     4
              int m1, n1, m2, n2, i, j;
     5
              printf("Enter row & column for a matrix = ");
     6
              scanf("%d %d", &m1, &n1);
     7
              printf("Enter row & column for b matrix = ");
     8
              scanf ("%d %d", &m2, &n2);
     9
              int a[100][100],b[100][100],c[100][100];
              while (m2!=m1&&n1!=n2)
    10
    11
    12
                   printf(" error m2!=m1&n1!=n1\n");
              printf("Enter row & column for a matrix = ");
    13
    14
              scanf("%d %d", &m1, &n1);
    15
              printf("Enter row & column for b matrix = ");
    16
              scanf ("%d %d", &m2, &n2);
    17
    18
              // input 1st mtrix
    19
              printf("Enter 1st matrix :\n");
    20
              for (i=0; i<m1; i++)
    21
                   for (j=0; j<n1; j++)</pre>
    22
    23
    24
                       scanf("%d", &a[i][j]);
    25
    26
    27
              //input 2nd matrix
    28
              printf("Enter 2nd matrix :\n");
    29
              for(i=0;i<m2;i++)
    30
    31
                   for (j=0; j<n2; j++)
    32
    33
                       scanf("%d", &b[i][j]);
    34
    35
    36
               //print 1st matrix
```

```
Start here X 1.c X 2.c X 3.c X 4.c X 5.c X 6.c X *7.c X *8.c X
                                                           "C:\Users\ASUS\OneDrive\De X
                    scanf("%d", &b[i][j]);
    33
    34
                                                          Enter row & column for a matrix = 2 2
    35
                                                          Enter row & column for b matrix = 2 2
             //print 1st matrix
    36
                                                          Enter 1st matrix :
    37
             printf("\n\n1st matrix \n ");
             for(i=0;i<m1;i++)
    38
                                                          1 2
    39
                                                          0 6
                printf("\t");
    40
                                                          Enter 2nd matrix :
    41
                for(j=0;j<n1;j++)
    42
                                                          4 6
    43
                    printf("%d ",a[i][j]);
                                                          3 0
    44
                printf("\n");
    45
    46
    47
             //printf 2nd matrix
                                                          1st matrix
            printf("\n\n2nd matrix \n ");
    48
                                                                    1 2
    49
             for (i=0; i < m2; i++)
    50
                                                                    0 6
                printf("\t");
    51
    52
                for(j=0;j<n2;j++)
    53
    54
                    printf("%d ",b[i][j]);
                                                          2nd matrix
    55
                                                                    4 6
    56
                 printf("\n");
                                                                    3 0
    57
    58
             //resultant matrix
                                                          substract of a & b matrix
    59
            printf("substract of a & b matrix \n");
                                                                    -3 -4
             for (i=0; i < m2; i++)
                                                                    -36
    61
    62
                printf("\t");
    63
                for(j=0;j<n2;j++)
                                                                                            execution time : 16.140 s
                                                          Process returned 0 (0x0)
    64
                                                          Press any key to continue.
    65
                    c[i][j]=a[i][j]-b[i][j];
    66
                    printf("%d ",c[i][j]);
    67
                 printf("\n");
    68
    69
    70
    71
             return 0;
    72
Logs & others
```

```
Start here X 1.c X 2.c X 3.c X 4.c X 5.c X 6.c X *7.c X *8.c X 9.c X
    1 #include<stdio.h>
       int main()
    2
    3 早(
    4
             int ml, nl, m2, n2, i, j, sum=0;
             printf("Enter row & column for a matrix = ");
    5
     6
             scanf ("%d %d", &ml, &nl);
    7
            printf("Enter row & column for b matrix = ");
    8
             scanf ("%d %d", &m2, &n2);
     9
             int a[100][100],b[100][100],c[100][100];
   10
             while (m2!=n1)
   11
                 printf(" error (m2!=n!)\n");
   12
            printf("Enter row & column for a matrix = ");
   13
   14
             scanf ("%d %d", &ml, &nl);
             printf("Enter row & column for b matrix = ");
   15
   16
             scanf ("%d %d", &m2, &n2);
   17
   18
             // input 1st mtrix
   19
            printf("Enter 1st matrix :\n");
   20
             for(i=0;i<ml;i++)
   21
   22
                 for(j=0;j<nl;j++)
   23
   24
                     scanf("%d", &a[i][j]);
   25
   26
             }
   27
             //input 2nd matrix
   28
             printf("Enter 2nd matrix :\n");
   29
             for (i=0; i<m2; i++)
   30
   31
                 for(j=0;j<n2;j++)
   32
   33
                     scanf("%d",&b[i][j]);
   34
                 }
   35
   36
             //print lst matrix
             printf("\n\nlst matrix \n ");
   37
   38
             for (i=0; i<ml; i++)
   39
    40
                 printf("\t");
    41
                 for(j=0;j<n1;j++)
    42
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X *7.c X *8.c X
                                                                    "C:\Users\ASUS\OneDrive\De X
   35
   36
            //print 1st matrix
                                                                  Enter row & column for b matrix = 3 2
   37
            printf("\n\nlst matrix \n ");
            for(i=0;i<ml;i++)
                                                                  Enter 1st matrix :
   39
                                                                  1 2 3
   40
                printf("\t");
                                                                  456
   41
                for(j=0;j<n1;j++)
                                                                  Enter 2nd matrix :
                                                                  1 2
   43
                   printf("%d ",a[i][j]);
   44
                                                                  1 2
   45
                printf("\n");
                                                                  4 5
   46
            //printf 2nd matrix
    47
   48
            printf("\n\n2nd matrix \n ");
                                                                  1st matrix
   49
            for (i=0; i<m2; i++)
                                                                           1 2 3
   50
   51
                printf("\t");
                                                                           456
   52
                for(j=0;j<n2;j++)
   53
                {printf("%d ",b[i][j]);
   54
                }printf("\n");
                                                                  2nd matrix
   55
                                                                           1 2
   56
            //multiplying
            for(i=0;i<ml;i++)
                                                                           1 2
   57
   58
                                                                           45
   59
                printf("\t");
    60
                for(j=0;j<n2;j++)
    61
                                                                    Result matrix :
    62
                   for (int k=0; k<n1; k++)
                                                                           15 21
                   {sum=sum+a[i][k]*b[k][j];} c[i][j]=sum;
    64
                                                                           33 48
    65
                printf("\n");}
    66
            //resultant matrix
                                                                  Process returned 0 (0x0) execution time : 19.386 s
    67
            printf(" Result matrix : \n");
                                                                  Press any key to continue.
    68
             for (i=0; i<ml; i++) {
    69
                printf("\t");
   70
                for (j=0; j<n2; j++)
   71
   72
                   printf("%d ",c[i][j]);
   73
   74
                printf("\n"); } return 0;
    75
    76
```

```
"C:\Users\ASUS\OneDrive\De X
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X *7.c X *8.c X 9
          #include<stdio.h>
          int main()
                                                    1 2 3
     3 ⊟{
                                                    4 5 6
              int m, i, j, s=0;
                                                    8 9 0
              scanf ("%d", &m);
     6
              int a[100][100];
                                                    Process returned 0 (0x0) execution time : 7.198 s
     7
              for (i=0; i<m; i++)
                                                    Press any key to continue.
     8
     9
                  for(j=0;j<m;j++){
    10
                  scanf("%d", &a[i][j]);
    11
    12
    13
              for (i=0; i<m; i++)
    14
    15
                  for (j=0; j<m; j++)</pre>
    16
    17
                       if(i==j)
    18
    19
                           s=s+a[i][j];
    20
    21
    22
    23
              printf("%d",s);
    24
              return 0;
    25
    26
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X *7.c X *8.c X 9.c X *15.c X *11.c X
         #include<stdio.h>
                                                           "C:\Users\ASUS\OneDrive\De X
     2
          int main()
     3 □{
                                                          2 2
              int m, n, i, j;
     4
                                                          3 4
     5
              scanf ("%d %d", &m, &n);
                                                          8 9
              int a[100][100],b[100][100];
      6
                                                          3 8
     7
              for (i=0; i<m; i++)
                                                          49
     8 🛱
     9
                  for (j=0; j<n; j++) {
                                                          Process returned 0 (0x0) execution time : 7.229 s
    10
                  scanf("%d", &a[i][j]);
                                                          Press any key to continue.
    11
    12
    13
    14
              for (i=0; i<m; i++)</pre>
    15 🛱
    16 E
                  for (j=0; j<n; j++) {
                  b[i][j]=a[j][i];
    17
    18
    19
                  printf("%d ",b[i][j]);
    20
    21
    22
                  printf("\n");
    23
    24
    25
    26
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X *7.c X *8.c X 9.c X
                                                                                                                       "C:\Users\ASUS\OneDrive\De X
      1
           #include<stdio.h>
      2
           int main()
                                                            3 3
      3 □{
                                                            4 5 6
      4
               int m, n, i, j;
                                                            7 8 9
      5
               scanf("%d %d", &m, &n);
                                                            1 2 3
      6
               int a[100][100];
                                                            4 0 0
      7
               for (i=0; i<m; i++)</pre>
                                                            7 8 0
      8
                                                            1 2 3
      9
                    for (j=0; j<n; j++) {
     10
                    scanf("%d", &a[i][j]);
                                                            Process returned 0 (0x0)
                                                                                           execution time : 19.964 s
     11
                                                            Press any key to continue.
     12
     13
     14
               for (i=0; i<m; i++)</pre>
     15
     16
                    for (j=0; j<n; j++) {
     17
                    if(j<=i){
     18
                        printf("%d ",a[i][j]);
     19
     20
                    else
     21
     22
                        printf("0 ");
     23
     24
     25
                    //printf("%d ",a[i][j]);
     26
     27
                    printf("\n");
     28
     29
     30
     31
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X 7.c X *8.c X 9.c X *15.c X *11.c X
       #include<stdio.h>
   2
       int main()
   3
   4
           int m,n,i,j;
   5
           scanf("%d %d",&m,&n);
           int a[100][100];
    6
   7
           for(i=0; i<m; i++)
                                                    "C:\Users\ASUS\OneDrive\De × + v
   8
   9
              for(j=0; j<n; j++)</pre>
                                                   3 3
   10
   11
                 scanf("%d", &a[i][j]);
                                                   1 2 3
   12
                                                   7 8 9
   13
   14
                                                   44 55 66
   15
           for(i=0; i<m; i++)
                                                   1
                                                             2
                                                                       3
   16
   17
              for(j=0; j<n; j++)
                                                   0
                                                             8
                                                                       9
   18
                                                             0
                                                                       66
   19
                 if(j>=i)
   20
   21
                   printf("%d\t",a[i][j]);
                                                   Process returned 0 (0x0) execution time : 13.314 s
   22
                                                   Press any key to continue.
   23
                 else
   24
   25
                    printf("0\t");
   26
   27
   28
   29
   30
              printf("\n");
   31
   32
   33
   34
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X 7.c X 8.c X 9.c X *15.c X
                                                                                                                                                                                                           © "C:\Users\ASUS\OneDrive\De X
            1 #include<stdio.h>
                     int main()
                                                                                                                                                                                                       Enter the number of row and col = 3 3
           Enter matrices =
           4
                                  int r.c:
                                                                                                                                                                                                       1 2 3
                                  printf("Enter the number of row and col = ");
            5
                                  scanf("%d%d",&r,&c);
            6
                                                                                                                                                                                                       678
                                int mat1[r][c];
                                                                                                                                                                                                       987
                                  printf("Enter matrices = \n");
            8
                                                                                                                                                                                                      Determinant of 3*3 mattrix = -147
           9
                     if (r==2&&c==2) {
          10
                                  for(int i=0; i<r; i++)
                                                                                                                                                                                                       Process returned 0 (0x0) execution time : 21.944 s
          11
                                                                                                                                                                                                       Press any key to continue.
          12
                                            for(int j=0; j<c; j++)
          13
          14
                                                      scanf("%d", &mat1[i][j]);
          15
          16
          17
                                  int det;
          18
                                  det=(mat1[0][0]*mat1[1][1])-(mat1[0][1]*mat1[1][0]);
          19
                                  printf("%d", det);
          20
          21
                      else if(r==3&&c==3)
          22
          23
                        for(int i=0; i<r; i++)
          24
          25
                                            for(int j=0; j<c; j++)
          26
          27
                                                      scanf("%d", &mat1[i][j]);
          28
          29
          30
                      -}int det;
          31
                       det=((mat1[0][0]*(mat1[1][1]*mat1[2][2]-mat1[2][1]*mat1[1][2]))+(mat1[1][0][1]*(mat1[1][0]]*mat1[2][2]-mat1[2][0]*mat1[1][0]]))+(mat1[1][0][0]*mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[1][0]]*(mat1[
                      printf("Determinant of 3*3 mattrix = %d", det);
          33
          34
```

```
©3 "C:\Users\ASUS\OneDrive\De X + v
      #include<stdio.h>
 2
      int main()
 3
                                                            5 6 8 9 2 0
 4
          int n,b;
                                                            Largest Numnber = 9
 5
          scanf("%d",&n);
                                                            Process returned 0 (0x0) execution time : 18.650 s
 6
          int arr[n];
                                                            Press any key to continue.
          for(int i=0;i<n;i++)</pre>
 8
 9
              scanf("%d", &arr[i]);
10
11
          for(int i=0;i<n;i++)</pre>
12
13
              for(int j=0;j<n;j++)</pre>
14
                  if(arr[i] < arr[j]) {</pre>
15
16
                      b=arr[i];
17
                      arr[i]=arr[j];
18
                      arr[j]=b;
19
20
21
22
         printf("Largest Number = %d", arr[n-1]);
23
24
```

```
#include<stdio.h>
 2
     int main()
 3
 4
         int n,c;
         scanf("%d",&n);
 6
         int arr[n];
         for(int i=0;i<n;i++)</pre>
              scanf("%d", &arr[i]);
10
11
         for(int i=0;i<n;i++)</pre>
12
13
              for(int j=0;j<n;j++)</pre>
14
15
                  if(arr[i] < arr[j]) {</pre>
16
                      c=arr[i];
17
                      arr[i]=arr[j];
18
                      arr[j]=c;
19
20
21
22
         printf("2nd Largest Number = %d",arr[n-2]);
23
24
```

```
TC:\Users\ASUS\OneDrive\De \times + \rightarrow

1 3 5 7 99

2nd Largest Numnber = 7

Process returned 0 (0x0) execution time : 6.697 s

Press any key to continue.
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X 7.c X 8.c X 9.c X *15.c X 11.c X 10.c X
     1
          #include<stdio.h>
      2
          int main()
      3
                                                       "C:\Users\ASUS\OneDrive\De × + ~
         □{
      4
               int n,c;
      5
               scanf("%d", &n);
                                                      4 3 2 7 9 0
      6
               int arr[n];
                                                      2nd smallest Numnber = 2
      7
               for (int i=0; i<n; i++)</pre>
                                                      Process returned 0 (0x0) execution time : 10.527 s
      8
      9
                   scanf("%d", &arr[i]);
                                                      Press any key to continue.
     10
     11
               for (int i=0; i<n; i++)</pre>
     12
    13
                   for(int j=0; j<n; j++)</pre>
    14
                       if(arr[i] < arr[j]) {</pre>
    15
     16
                            c=arr[i];
    17
                            arr[i]=arr[j];
    18
                            arr[j]=c;
    19
     20
    21
               printf("2nd smallest Number = %d", arr[1]);
     22
    23
     24
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X 7.c X 8.c X 9.c X 15.c X 11
          #include<stdio.h>
                                                                 "C:\Users\ASUS\OneDrive\De X
     2
          int main()
     3
                                                                66 66 7 8 9 8
     4
              int n,c;
     5
              scanf("%d",&n);
                                                                66 7 8 9
      6
              int arr[n];
                                                                Process returned 0 (0x0) execution time : 12.946 s
     7
              for(int i=0;i<n;i++)</pre>
                                                                Press any key to continue.
     8
     9
                   scanf("%d", &arr[i]);
    10
    11
              for(int i=0;i<n;i++)</pre>
    12
                   for(int j=i+1; j<n;)</pre>
    13
    14
    15
                       if(arr[i]==arr[j]){
                          for(int k=j;k<n-i;k++){</pre>
    16
                           arr[k]=arr[k+1];
    17
    18
    19
                          n--;
    20
    21
                       else j++;
    22
    23
    24
               for(int i=0;i<n;i++)</pre>
    25
                  printf("%d ",arr[i]);
    26
    27
    28
    29
```

```
Start here X 1,c X 2,c X *3,c X 4,c X 5,c X 6,c X 7,c X 8,c X 9,c X 15,c X 11,c X 10,c X 12,c X 13,c X *14,c X
                                                                                            Enter the size of the array: 3
                                                                                            Enter the elements of the array:
     4
             int size, position;
     5
             printf("Enter the size of the array: ");
     6
             scanf("%d", &size);
     7
             int array[size];
                                                                                            Enter the position of the element to be deleted (0 to 2
     8
             printf("Enter the elements of the array:\n");
     9
             for (int i = 0; i < size; i++)</pre>
                                                                                            Array after deleting element at position 2:
    10 🖹
    11
                 scanf("%d", &array[i]);
    12
             printf("Enter the position of the element to be deleted (0 to %d): ", size - Process returned 0 (0x0) execution time : 17.116 s
    13
    14
             scanf("%d", &position);
                                                                                            Press any key to continue.
             if (position < 0 || position >= size)
    15
    16
                 printf("Invalid position!\n");
    17
    18
                 return 1;
    19
             for (int i = position; i < size - 1; i++)</pre>
    20
    21
    22
                 array[i] = array[i + 1];
    23
    24
             printf("Array after deleting element at position %d:\n", position);
    25
             for (int i = 0; i < size; i++)</pre>
    26
    27
                 printf("%d ", array[i]);
    28
    29
             printf("\n");
    30
    31
             return 0;
    32
   33
```

```
Starthere X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X 7.c X 8.c X 9.c X 15.c X 11.c X 10.c X 12.c X 13.c X 14.c X
    1 #include <stdio.h>
    2 int main()
    3 ⊟{
            int size, position, newValue;
                                                                     "C:\Users\ASUS\OneDrive\De X + v
            printf("Enter the size of the array: ");
    6
           scanf("%d", &size);
                                                                     Enter the size of the array: 5
            int array[size + 1];
                                                                    Enter the elements of the array:
            printf("Enter the elements of the array:\n");
            for (int i = 0; i < size; i++)</pre>
    9
                                                                    35678
   10
                                                                    Enter the position to insert (0 to 5): 2
   11
               scanf("%d", &array[i]);
                                                                    Enter the new value to insert: 1
   12
                                                                    Array after inserting 1 at position 2:
            printf("Enter the position to insert (0 to %d): ", size);
   13
                                                                    351678
   14
            scanf("%d", &position);
            printf("Enter the new value to insert: ");
   15
   16
            scanf("%d", &newValue);
                                                                     Process returned 0 (0x0) execution time : 27.069 s
   17
            if (position < 0 || position > size)
                                                                     Press any key to continue.
   18
   19
                printf("Invalid position!\n");
   20
                return 1;
   21
   22
            for (int i = size; i > position; i--)
   23
   24
                array[i] = array[i - 1];
   25
   26
            array[position] = newValue;
   27
            size++;
   28
            printf("Array after inserting %d at position %d:\n", newValue,
   29
                   position);
   30
            for (int i = 0; i < size; i++)
   31
   32
                printf("%d ", array[i]);
   33
   34
            printf("\n");
   35
            return 0;
   36
```

```
Start here X 1.c X 2.c X *3.c X 4.c X 5.c X 6.c X 7.c X 8.c X 9.c X 15.c X 11.c X 10.c X 12.c X 13.c X 14.c X
          #include<stdio.h>
     2
          int main()
                                                     "C:\Users\ASUS\OneDrive\De X + \
     3
     4
              int n,c;
     5
              scanf("%d",&n);
                                                    66 88 00 33 22 55
     6
              int arr[n];
                                                    Smallest Numnber = 0
     7
              for(int i=0;i<n;i++)</pre>
                                                    Largest Number = 88
     8
                                                    Process returned 0 (0x0) execution time : 13.300 s
     9
                   scanf("%d", &arr[i]);
                                                    Press any key to continue.
    10
    11
              for(int i=0;i<n;i++)</pre>
    12
    13
                   for(int j=0;j<n;j++)</pre>
    14
    15
                       if(arr[i] < arr[j]) {</pre>
    16
                            c=arr[i];
    17
                            arr[i]=arr[j];
    18
                            arr[j]=c;
    19
    20
                  }
    21
    22
              printf("Smallest Number = %d\nLargest Number = %d",arr[0],arr[n-1]);
    23
    24
    25
```