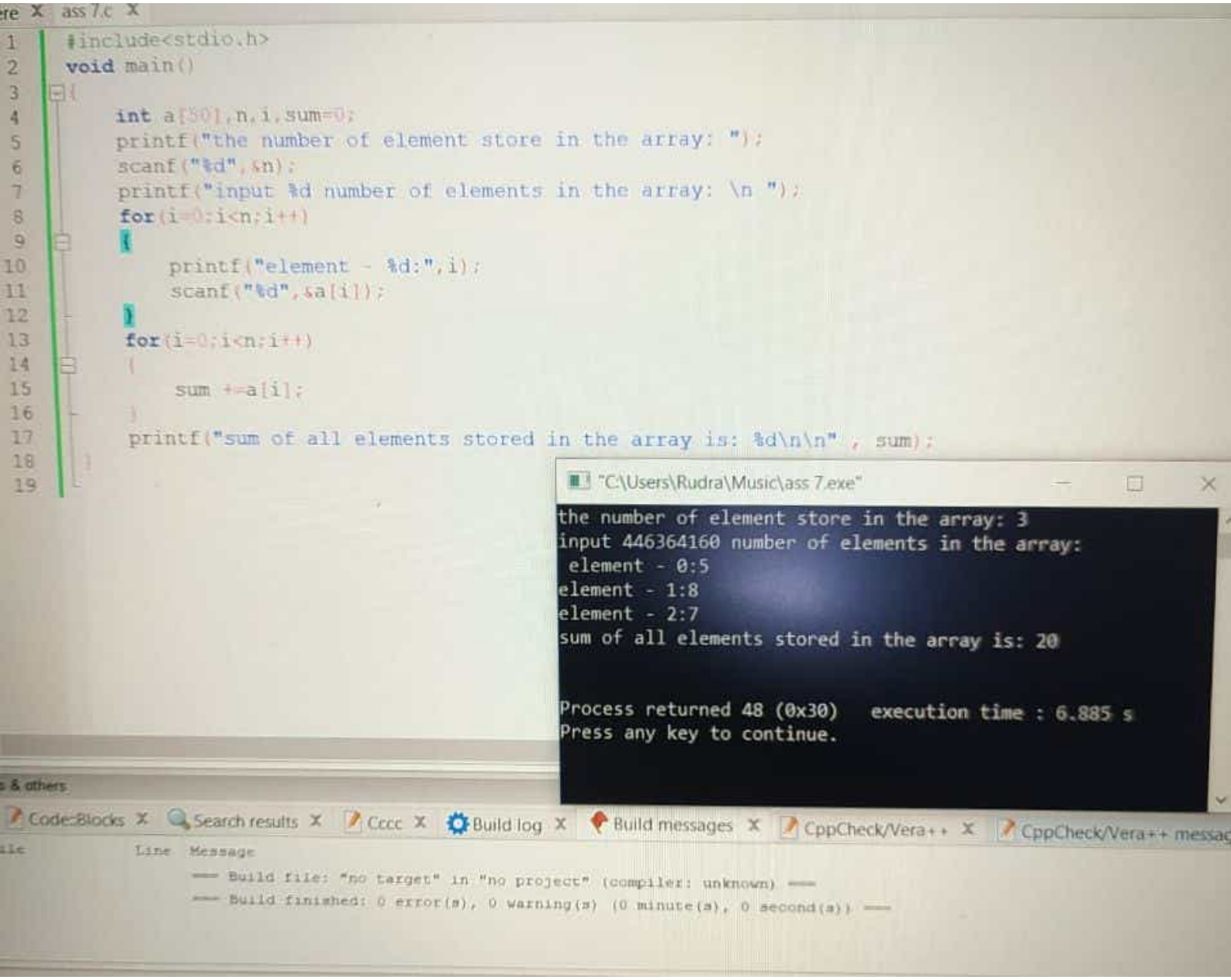
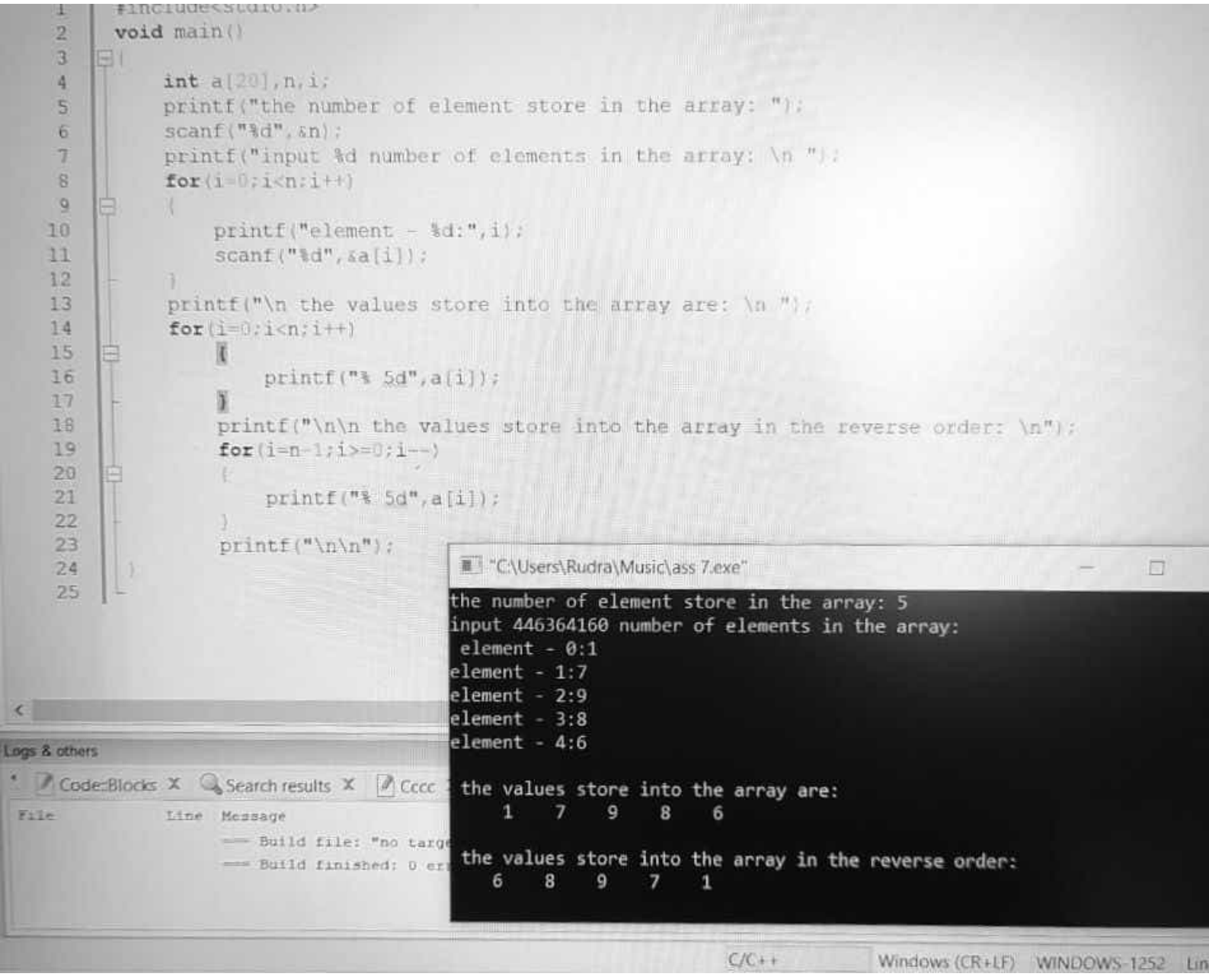

ass 7.c
#include<stdio.h>
void main()
{
int a[50],n,i,sum=0;
printf("the number of element store in the array: ");
scanf("%d",&n);
printf("input %d number of elements in the array: \n ");
for(i=0;i<n;i++)
{
printf("element - %d:",i);
scanf("%d",&a[i]);
}
for(i=0;i<n;i++)
{
sum +=a[i];
}
printf("sum of all elements stored in the array is: %d\n\n" , sum);
}
"C:\Users\Rudra\Music\ass 7.exe"
the number of element store in the array: 3
input 446364160 number of elements in the array:
element - 0:5
element - 1:8
element - 2:7
sum of all elements stored in the array is: 20
Process returned 48 (0x30) execution time : 6.885 s
Press any key to continue.
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
Line Message
=== Build file: "no target" in "no project" (compiler: unknown) ===
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

```c
int main()
{
    int arr1[100],arr2[100],arr3[100],i,j=0,k=0,size;
    printf("size of the array - ");
    scanf("%d",&size);
    printf("enter elements in array - \n ",size);
    for(i=0;i<size;i++)
    {
        scanf("%d",&arr1[i]);
    }
    for(i=0;i<size;i++)
    {
        if(arr1[i]%2==0)
        {
            arr2[j]=arr1[i];
            j++;
        }
        else
        {
            arr3[k]=arr1[i];
            k++;
        }
        }
        printf("\n the even elements are - \n ");
        for(i=0;i<j;i++)
        {
            printf("%d",arr2[i]);
        }
        printf("\n the odd elements are - \n ");
        for(i=0;i<k;i++)
        {
            printf("%d",arr3[i]);
        }
        printf(" \n \n ");
        return 0;
}
```

```
C:\Users\Rudra\Music\3.exe
size of the array - 7
enter elements in array -
 21 31 23 20 30 42 5

 the even elements are -
 203042
 the odd elements are -
 2131235


Process returned 0 (0x0)   execution time : 28.727 s
Press any key to continue.
```

```
scanf("%d",&c);
printf("enter the first matrix element=\n");
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("enter the second matrix element=\n");
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
{
scanf("%d",&b[i][j]);
}
}
printf("multiply of the matrix=\n");
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
{
mul[i][j]=0;
for(k=0;k<c;k++)
{
mul[i][j]+=a[i][k]*b[k][j];
}
}
}
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
{
printf("%d\t",mul[i][j]);
}
printf("\n");
}
return 0;
```

```
C:\Users\Rudra\Music\3.exe
enter the number of row=2
enter the number of column=2
enter the first matrix element=
1 4
2 4
enter the second matrix element=
2 5
6 3
multiply of the matrix=
26      17
28      22

Process returned 0 (0x0)   execution time : 27.608 s
Press any key to continue.
```



```c
#include<stdio.h>
void main()
{
    int a[20],n,i;
    printf("the number of element store in the array: ");
    scanf("%d",&n);
    printf("input %d number of elements in the array: \n ");
    for(i=0;i<n;i++)
    {
        printf("element - %d:",i);
        scanf("%d",&a[i]);
    }
    printf("\n the values store into the array are: \n ");
    for(i=0;i<n;i++)
        {
            printf("% 5d",a[i]);
        }
        printf("\n\n the values store into the array in the reverse order: \n");
        for(i=n-1;i>=0;i--)
        {
            printf("% 5d",a[i]);
        }
        printf("\n\n");
}
```

```
"C:\Users\Rudra\Music\ass 7.exe"
the number of element store in the array: 5
input 446364160 number of elements in the array:
 element - 0:1
element - 1:7
element - 2:9
element - 3:8
element - 4:6

 the values store into the array are:
    1    7    9    8    6

 the values store into the array in the reverse order:
    6    8    9    7    1
```

Logs & others

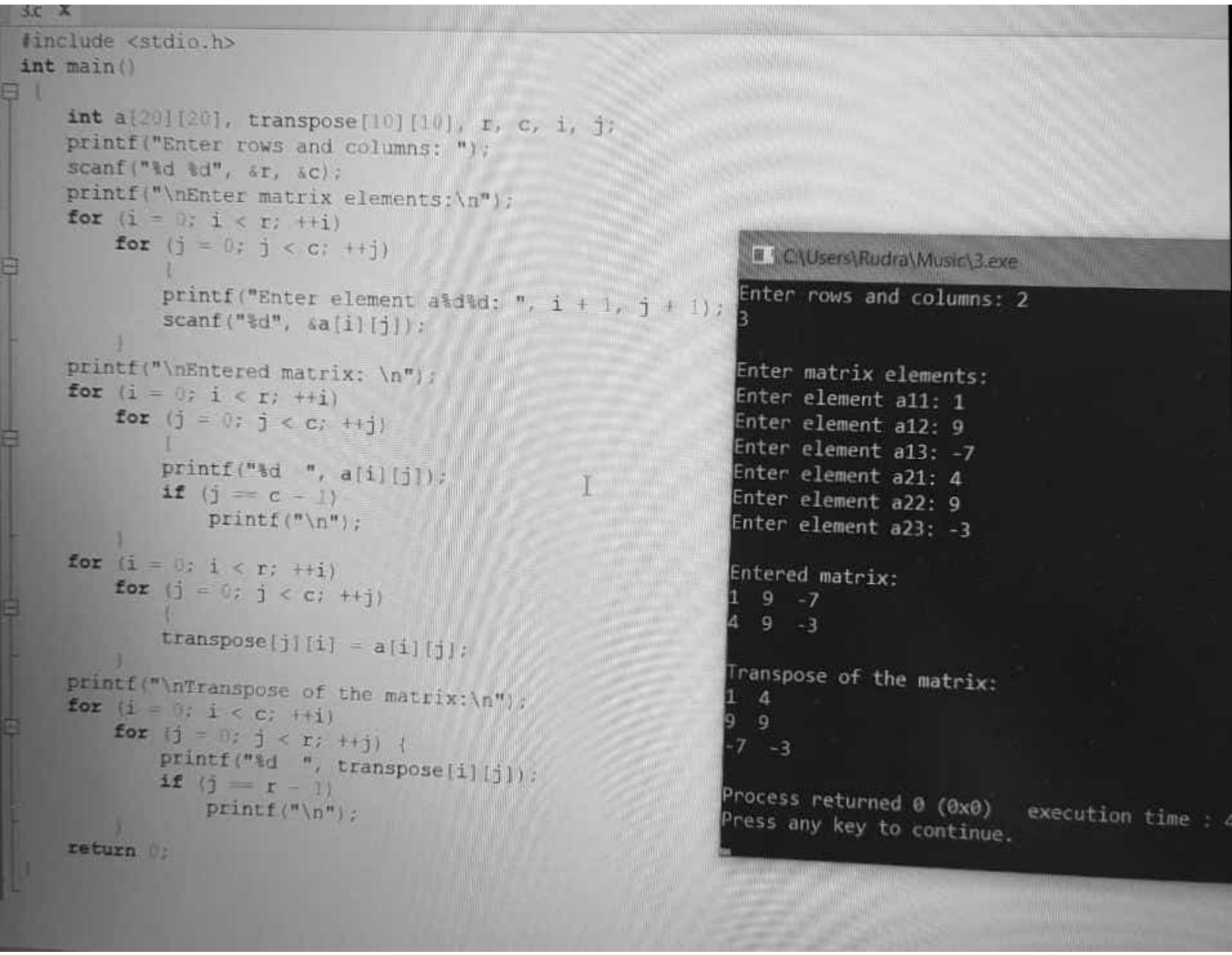
Code::Blocks X Search results X Cccc

File Line Message

=== Build file: "no targe

=== Build finished: 0 er

C/C++ Windows (CR+LF) WINDOWS-1252 Lin

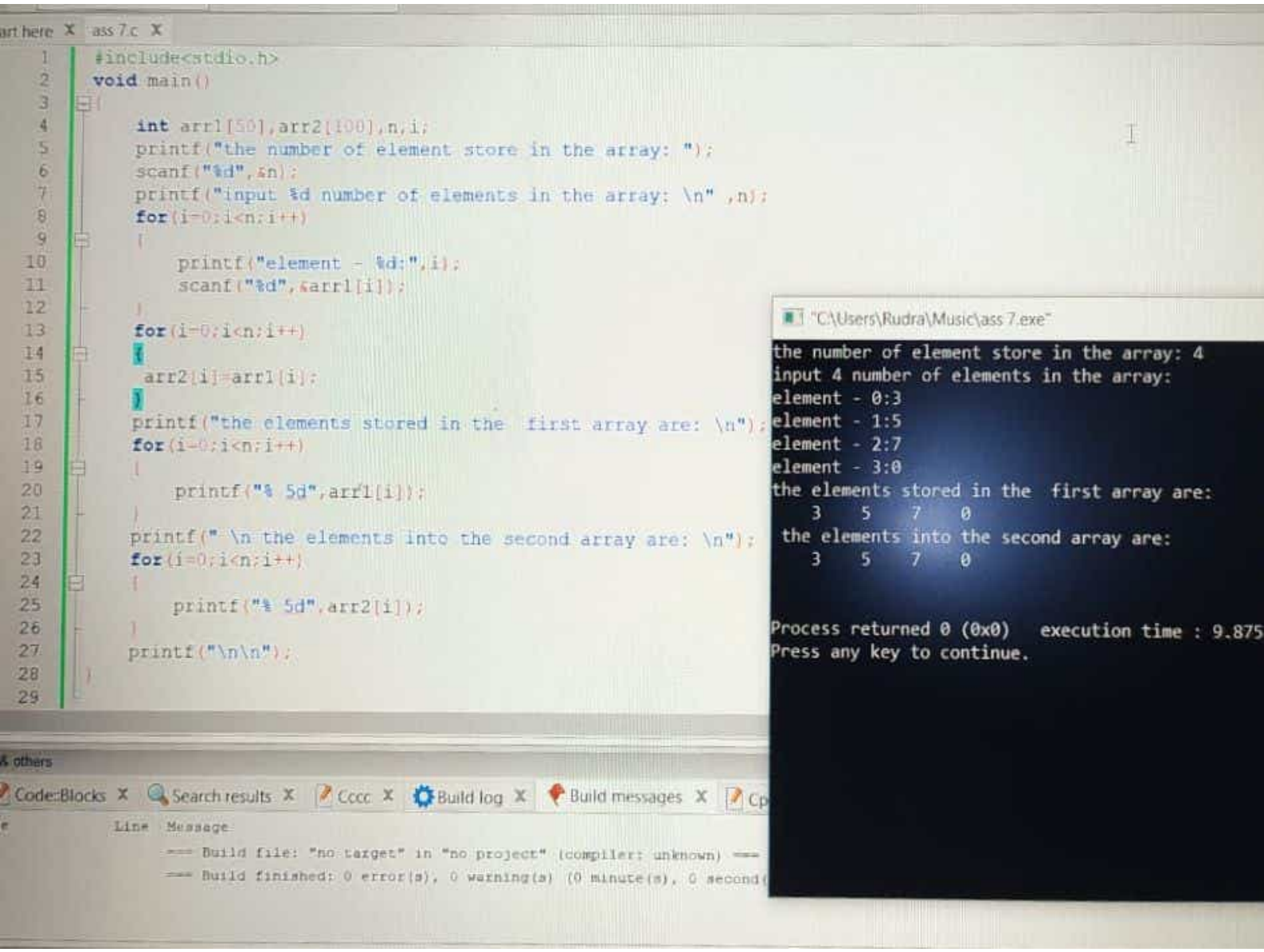


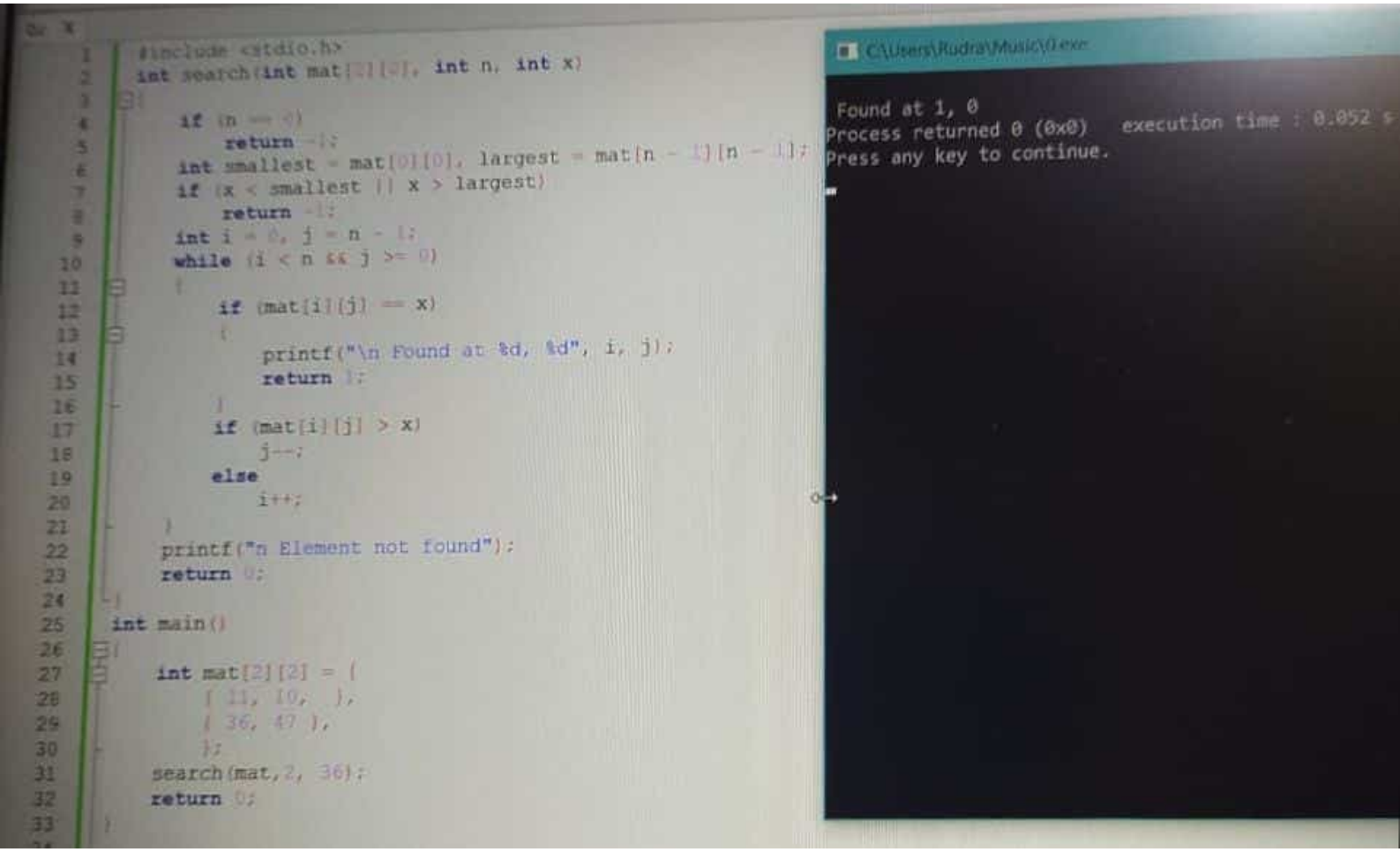
3.c

```c
#include <stdio.h>
int main()
{
    int a[20][20], transpose[10][10], r, c, i, j;
    printf("Enter rows and columns: ");
    scanf("%d %d", &r, &c);
    printf("\nEnter matrix elements:\n");
    for (i = 0; i < r; ++i)
        for (j = 0; j < c; ++j)
        {
            printf("Enter element a%d%d: ", i + 1, j + 1);
            scanf("%d", &a[i][j]);
        }
    printf("\nEntered matrix: \n");
    for (i = 0; i < r; ++i)
        for (j = 0; j < c; ++j)
        {
            printf("%d  ", a[i][j]);
            if (j == c - 1)
                printf("\n");
        }
    for (i = 0; i < r; ++i)
        for (j = 0; j < c; ++j)
        {
            transpose[j][i] = a[i][j];
        }
    printf("\nTranspose of the matrix:\n");
    for (i = 0; i < c; ++i)
        for (j = 0; j < r; ++j) {
            printf("%d  ", transpose[i][j]);
            if (j == r - 1)
                printf("\n");
        }
    return 0;
}
```

C:\Users\Rudra\Music\3.exe

```
Enter rows and columns: 2
3

Enter matrix elements:
Enter element a11: 1
Enter element a12: 9
Enter element a13: -7
Enter element a21: 4
Enter element a22: 9
Enter element a23: -3

Entered matrix:
1  9  -7
4  9  -3

Transpose of the matrix:
1  4
9  9
-7  -3

Process returned 0 (0x0)   execution time : 4
Press any key to continue.
```


art here
ass 7.c
#include<stdio.h>
void main()
{
int arr1[50],arr2[100],n,i;
printf("the number of element store in the array: ");
scanf("%d",&n);
printf("input %d number of elements in the array: \n" ,n);
for(i=0;i<n;i++)
{
printf("element - %d:",i);
scanf("%d",&arr1[i]);
}
for(i=0;i<n;i++)
{
arr2[i]=arr1[i];
}
printf("the elements stored in the first array are: \n");
for(i=0;i<n;i++)
{
printf("% 5d",arr1[i]);
}
printf(" \n the elements into the second array are: \n");
for(i=0;i<n;i++)
{
printf("% 5d",arr2[i]);
}
printf("\n\n");
}
"C:\Users\Rudra\Music\ass 7.exe"
the number of element store in the array: 4
input 4 number of elements in the array:
element - 0:3
element - 1:5
element - 2:7
element - 3:0
the elements stored in the first array are:
3 5 7 0
the elements into the second array are:
3 5 7 0
Process returned 0 (0x0) execution time : 9.875
Press any key to continue.
& others
Code::Blocks
Search results
Cccc
Build log
Build messages
Line Message
=== Build file: "no target" in "no project" (compiler: unknown) ===
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second



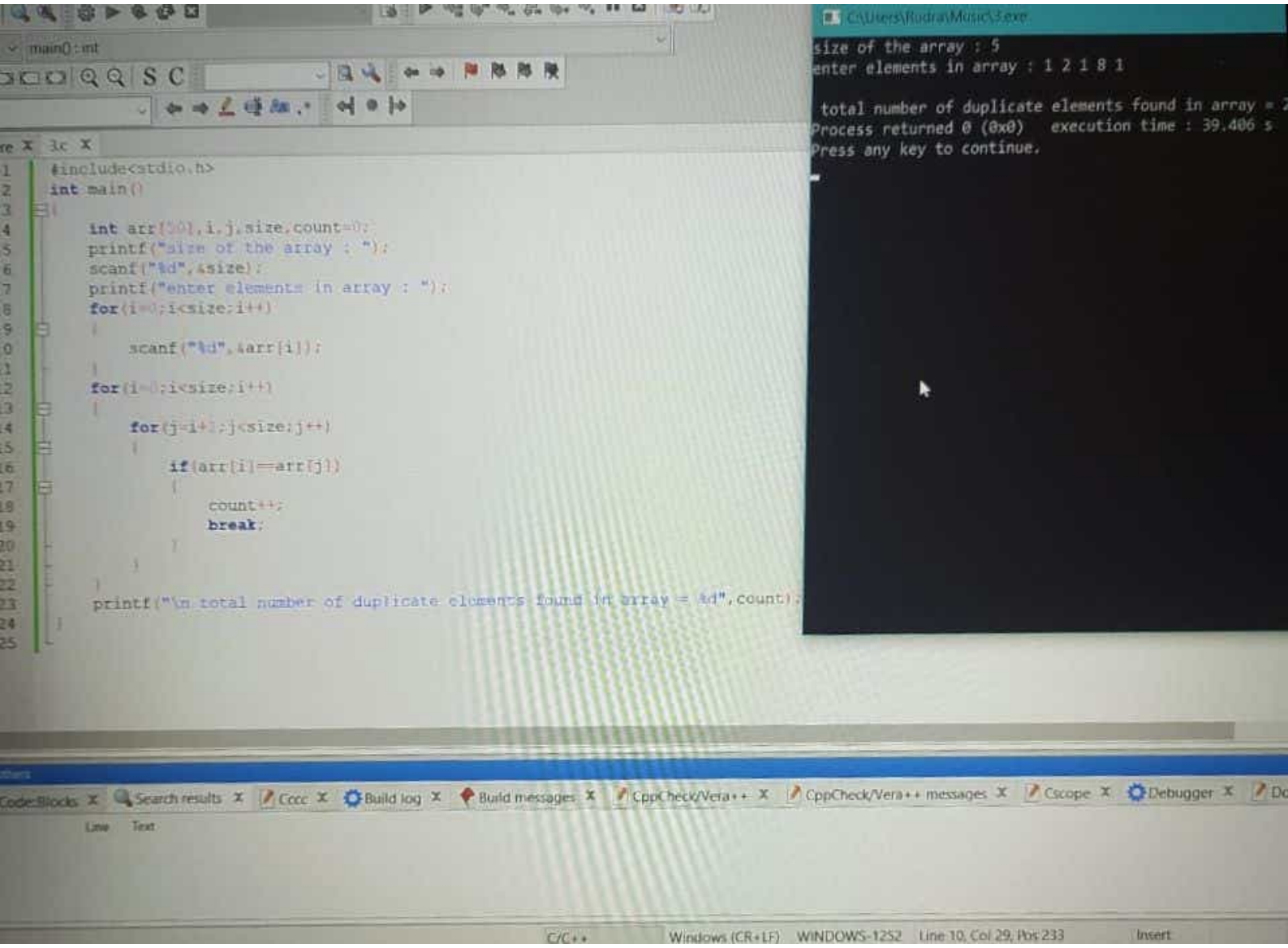
```c
#include <stdio.h>
int search(int mat[2][2], int n, int x)
{
    if (n == 0)
        return -1;
    int smallest = mat[0][0], largest = mat[n - 1][n - 1];
    if (x < smallest || x > largest)
        return -1;
    int i = 0, j = n - 1;
    while (i < n && j >= 0)
    {
        if (mat[i][j] == x)
        {
            printf("\n Found at %d, %d", i, j);
            return 1;
        }
        if (mat[i][j] > x)
            j--;
        else
            i++;
    }
    printf("n Element not found");
    return 0;
}
int main()
{
    int mat[2][2] = {
        { 11, 10, },
        { 36, 47 },
        };
    search(mat,2, 36);
    return 0;
}
```

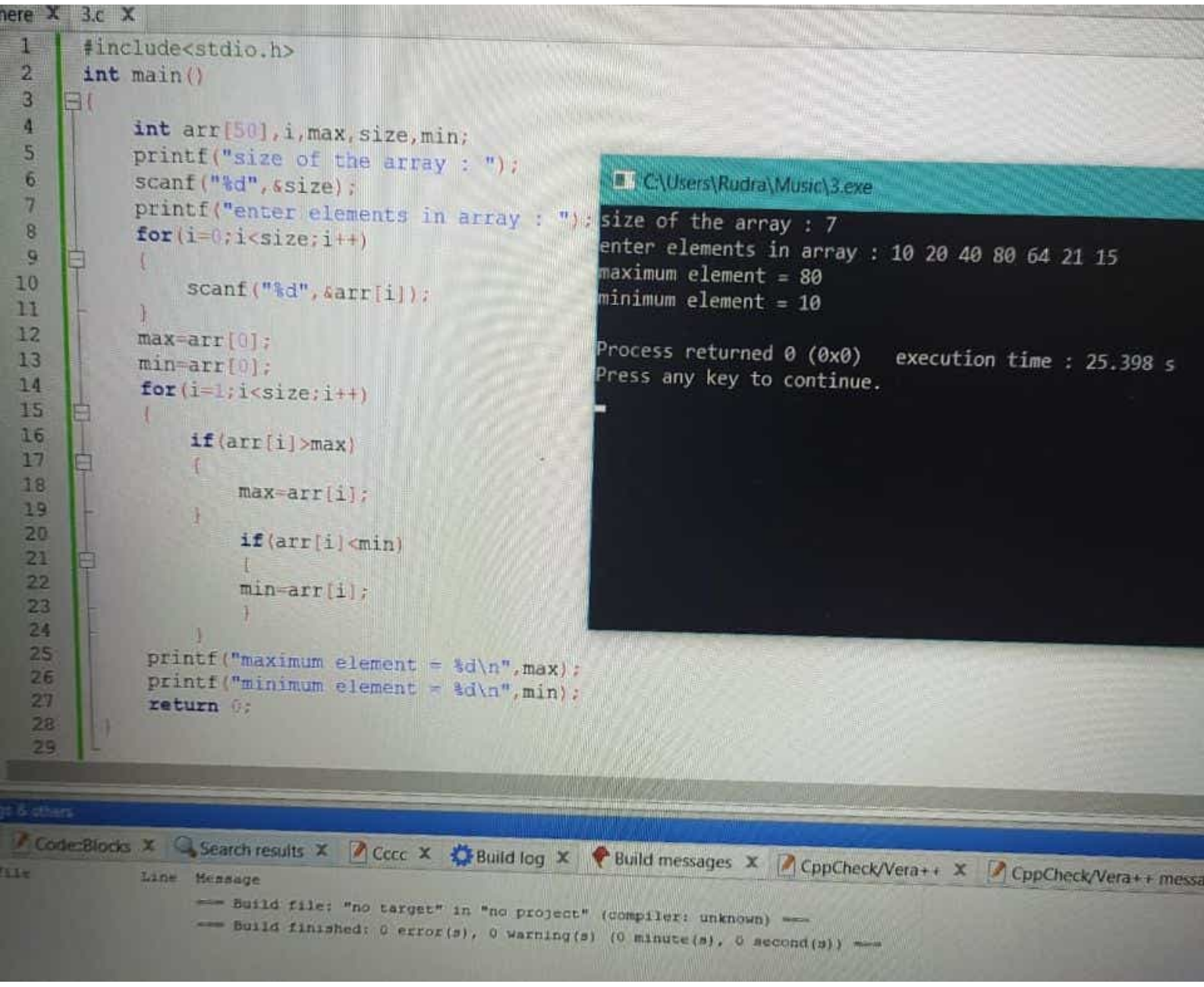
```
C:\Users\Rudra\Music\0.exe

 Found at 1, 0
Process returned 0 (0x0)   execution time : 0.052 s
Press any key to continue.
```

```
    for (count = 0; count <= n; count++)
    {
        if (i == n)
        {
            m1 = m2;
            m2 = ar2[0];
            break;
        }
        else if (j == n)
        {
            m1 = m2;
            m2 = ar1[0];
            break;
        }
        if (ar1[i] < ar2[j])
        {
            m1 = m2;
            m2 = ar1[i];
            i++;
        }
        else
        {
            m1 = m2;
            m2 = ar2[j];
            j++;
        }
    }
    return (m1 + m2)/2;
}
int main()
{
    int ar1[] = {1, 14, 18, 25, 28};
    int ar2[] = {13, 17, 19, 31, 46};
    int n1 = sizeof(ar1)/sizeof(ar1[0]);
    int n2 = sizeof(ar2)/sizeof(ar2[0]);
    if (n1 == n2)
        printf("Median is %d", getMedian(ar1, ar2, n1));
    else
```

C:\Users\Rudra\Music\0.exe

```
Median is 18
```


main() : int
3c
#include<stdio.h>
int main()
{
int arr[50],i,j,size,count=0;
printf("size of the array : ");
scanf("%d",&size);
printf("enter elements in array : ");
for(i=0;i<size;i++)
{
scanf("%d",&arr[i]);
}
for(i=0;i<size;i++)
{
for(j=i+1;j<size;j++)
{
if(arr[i]==arr[j])
{
count++;
break;
}
}
}
printf("\n total number of duplicate elements found in array = %d",count);
}
C:\Users\Rudra\Music\3.exe
size of the array : 5
enter elements in array : 1 2 1 8 1
total number of duplicate elements found in array =
Process returned 0 (0x0) execution time : 39.406 s
Press any key to continue.
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
CppCheck/Vera++ messages
Cscope
Debugger
Line
Text
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 10, Col 29, Pos 233
Insert


here X 3.c X
#include<stdio.h>
int main()
{
int arr[50],i,max,size,min;
printf("size of the array : ");
scanf("%d",&size);
printf("enter elements in array : ");
for(i=0;i<size;i++)
{
scanf("%d",&arr[i]);
}
max=arr[0];
min=arr[0];
for(i=1;i<size;i++)
{
if(arr[i]>max)
{
max=arr[i];
}
if(arr[i]<min)
{
min=arr[i];
}
}
printf("maximum element = %d\n",max);
printf("minimum element = %d\n",min);
return 0;
}
C:\Users\Rudra\Music\3.exe
size of the array : 7
enter elements in array : 10 20 40 80 64 21 15
maximum element = 80
minimum element = 10
Process returned 0 (0x0) execution time : 25.398 s
Press any key to continue.
Code::Blocks X
Search results X
Cccc X
Build log X
Build messages X
CppCheck/Vera++ X
CppCheck/Vera++ messa
File
Line
Message
=== Build file: "no target" in "no project" (compiler: unknown) ===
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

```c
#include <stdio.h>
int main()
{
    int i,j,arr1[40][40],sum=0,n,m=0;
    printf("Input the size of the square matrix : ");
    scanf("%d", &n);
        m=n;
    printf("Input elements in the first matrix :\n");
      for(i=0;i<n;i++)
       {
           for(j=0;j<n;j++)
           {
              printf("element - [%d],[%d] : ",i,j);
              scanf("%d",&arr1[i][j]);
           }
       }
     printf("The matrix is :\n");
     for(i=0;i<n;i++)
     {
       for(j=0;j<n;j++)
         printf("% 4d",arr1[i][j]);
        printf("\n");
     }
     for(i=0;i<n;i++)
     {
           m=m-1;
       for(j=0;j<n ;j++)
           {
             if (j==m)
               {
                 sum= sum+arr1[i][j];
               }
           }
     }
       printf("Addition of the  left Diagonal elements is :%d\n",sum);
       return 0;
    }
```

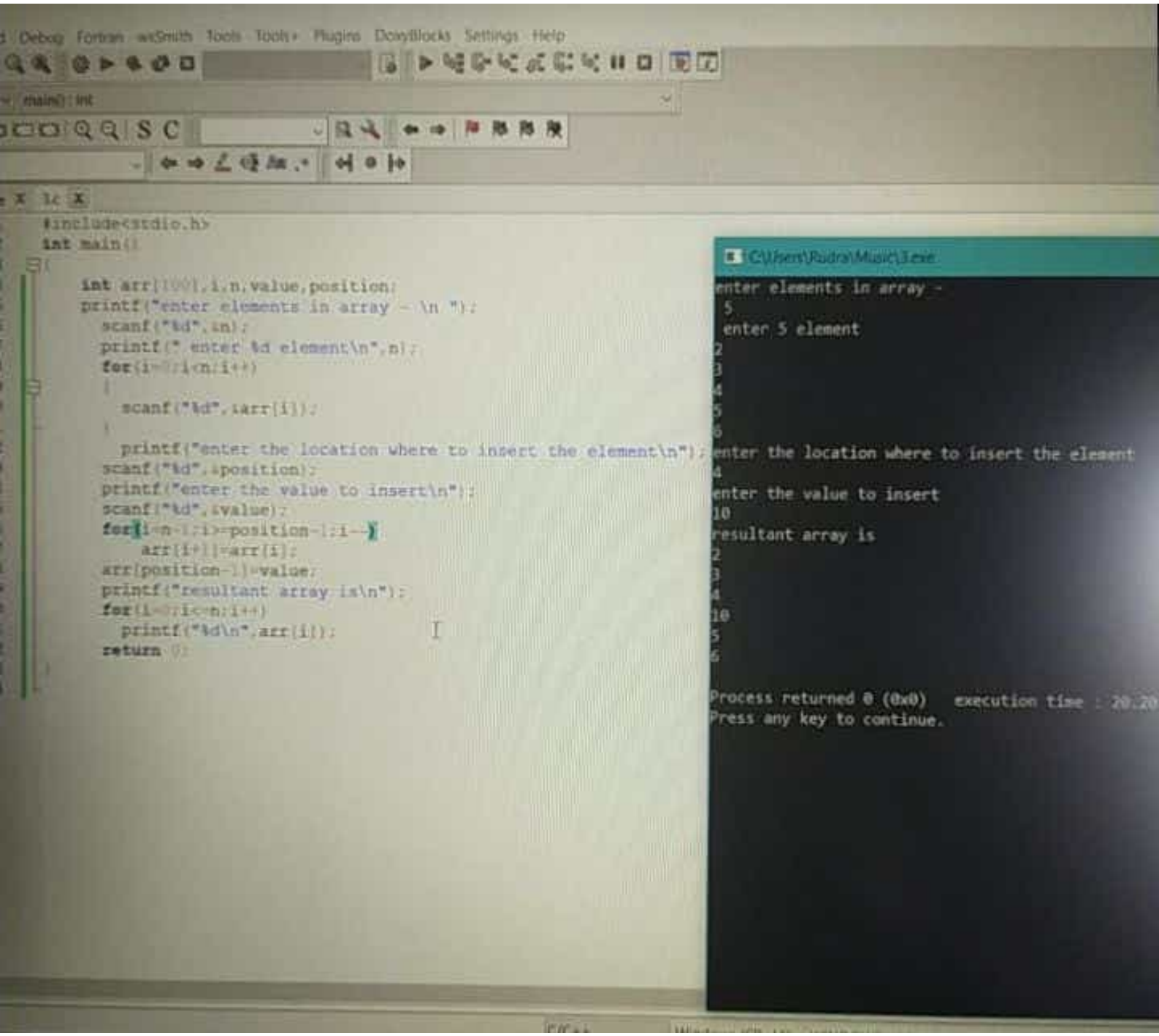
```
C:\Users\Rudra\Music\3.exe
Input the size of the square matrix : 3
Input elements in the first matrix :
element - [0],[0] : 1
element - [0],[1] : 2
element - [0],[2] : 3
element - [1],[0] : 4
element - [1],[1] : 5
element - [1],[2] : 6
element - [2],[0] : 7
element - [2],[1] : 8
element - [2],[2] : 9
The matrix is :
   1   2   3
   4   5   6
   7   8   9
Addition of the  left Diagonal elements is :15

Process returned 0 (0x0)   execution time : 26.525 s
Press any key to continue.
```

```c
#include <stdio.h>
void main()
{
 int arr1[50],n,i,j=0,lrg,lrg2nd;
      printf("Input the size of array : ");
      scanf("%d",&n);
      printf("Input %d elements in the array :\n",n);
      for(i=0;i<n;i++)
          {
         printf("element - %d : ",i);
         scanf("%d",&arr1[i]);
          }
  lrg=0;
 for(i=0;i<n;i++)
 {
     if(lrg<arr1[i])
     {
          lrg=arr1[i];
          j = i;
     }
 }
  lrg2nd=0;
 for(i=0;i<n;i++)
 {
    if(i==j)
       {
         i++;
         i--;
       }
     else
       {
         if(lrg2nd<arr1[i])
         {
              lrg2nd=arr1[i];
         }
       }
 }
```

```
C:\Users\Rudra\Music\1.exe
Input the size of array : 5
Input 5 elements in the array :
element - 0 : 7
element - 1 : 8
element - 2 : 9
element - 3 : 3
element - 4 : 4
The Second largest element in the array is :  8

Process returned 50 (0x32)   execution time : 9.985
 s
Press any key to continue.
```

```c
int main ()
{
    int a[50][50],i=0, j=0, row= 0, col= 0,flag=0;
    printf ("Enter the order of the matrix (mxn):\n");
    scanf ("%d %d", &row, &col);
    printf ("Enter the elements of the matrix\n");
    for (i = 0; i < row; i++)
    {
        for (j = 0; j < col; j++)
        {
            scanf ("%d", &a[i][j]);
        }
    }
    for (i = 0; i < row; i++)
    {
        for (j = 0; j < col; j++)
        {
            if (i == j && a[i][j] != 1)
            {
                flag = -1;
                break;
            }
            else if (i != j && a[i][j] != 0)
            {
                flag = -1;
                break;
            }
        }
    }
    if (flag == 0)
    {
        printf ("it is a identity matrix\n");
    }
    else
    {
        printf ("it is not an identity matrix\n");
    }
    return 0;
}
```

```
C:\Users\Rudra\Music\3.exe
Enter the order of the matrix (mxn):
3 3
Enter the elements of the matrix
1 0 0
0 1 0
0 0 1
it is a identity matrix

Process returned 0 (0x0)   execution time : 24.151 s
Press any key to continue.
```


Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
#include<stdio.h>
int main()
{
int arr[100],i,n,value,position;
printf("enter elements in array - \n ");
scanf("%d",&n);
printf(" enter %d element\n",n);
for(i=0;i<n;i++)
{
scanf("%d",&arr[i]);
}
printf("enter the location where to insert the element\n");
scanf("%d",&position);
printf("enter the value to insert\n");
scanf("%d",&value);
for(i=n-1;i>=position-1;i--)
arr[i+1]=arr[i];
arr[position-1]=value;
printf("resultant array is\n");
for(i=0;i<n;i++)
printf("%d\n",arr[i]);
return 0;
}
C:\Users\Rudra\Music\1.exe
enter elements in array -
5
enter 5 element
2
3
4
5
6
enter the location where to insert the element
4
enter the value to insert
10
resultant array is
2
3
4
10
5
6
Process returned 0 (0x0) execution time : 20.20
Press any key to continue.

Start here | 3.c

```c
#include <stdio.h>
int main()
{
  int arr[50],i,pos,n;
      printf("enter the size of array : ");
      scanf("%d", &n);
      printf("enter %d elements in the array in ascending order:\n",n);
      for(i=0;i<n;i++)
          {
          printf("element - %d : ",i);
          scanf("%d",&arr[i]);
          }
  printf("\nenter the position where to delete: ");
  scanf("%d",&pos);
  i=0;
  while(i!=pos-1)
          i++;
  while(i<n){
          arr[i]=arr[i+1];
          i++;
  }
  n--;
   printf("\n the new list is : ");
  for(i=0;i<n;i++)
          {
          printf("  %d",arr[i]);
          }
          printf("\n\n");
          return 0;

}
```

C:\Users\Rudra\Music\3.exe

```
enter the size of array : 5
enter 5 elements in the array in ascending order:
element - 0 : 1
element - 1 : 2
element - 2 : 3
element - 3 : 4
element - 4 : 8

enter the position where to delete: 8

 the new list is :   1  2  3  4


Process returned 0 (0x0)   execution time : 24.674 s
Press any key to continue.
```