

Problem Name: C program to declare, initialize, input and print array elements.

Source Code:

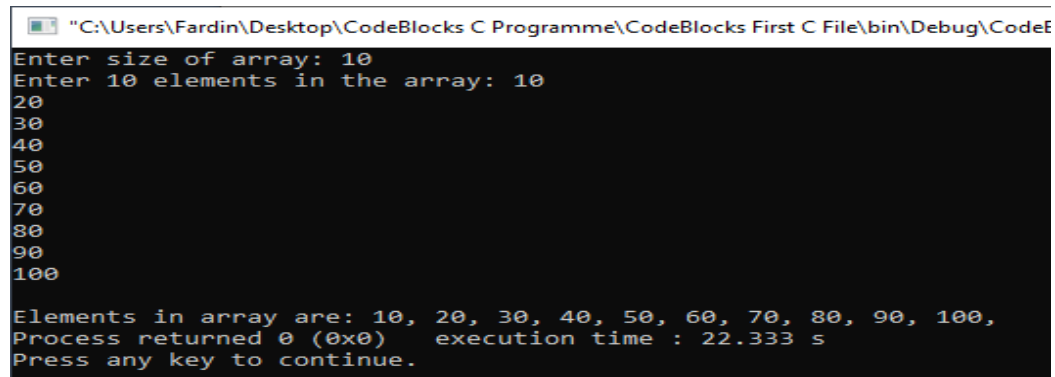
```
#include <stdio.h>
#define MAX_SIZE 1000
int main()
{
    int arr[MAX_SIZE];
    int i, N;

    printf("Enter size of array: ");
    scanf("%d", &N);

    printf("Enter %d elements in the array: ", N);
    for(i = 0; i < N; i++)
    {
        scanf("%d", &arr[i]);
    }

    printf("\nElements in array are: ");
    for(i = 0; i < N; i++)
    {
        printf("%d, ", arr[i]);
    }
    return 0;
}
```

Output:

A screenshot of a terminal window showing the execution of a C program. The window title is "C:\Users\Fardin\Desktop\CodeBlocks C Programme\CodeBlocks First C File\bin\Debug\CodeF". The program prompts the user to enter the size of the array, which is 10. It then prompts the user to enter 10 elements in the array, which are 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100. The program then prints the elements in the array: "Elements in array are: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100,". The process returned 0 (0x0) and the execution time was 22.333 s. The user is prompted to press any key to continue.

```
"C:\Users\Fardin\Desktop\CodeBlocks C Programme\CodeBlocks First C File\bin\Debug\CodeF
Enter size of array: 10
Enter 10 elements in the array: 10
20
30
40
50
60
70
80
90
100

Elements in array are: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100,
Process returned 0 (0x0)   execution time : 22.333 s
Press any key to continue.
```

Problem Name: C program to print all negative elements in array.

Source Code:

```
#include <stdio.h>
#define MAX_SIZE 100
int main()
{
    int arr[MAX_SIZE];
    int i, N;

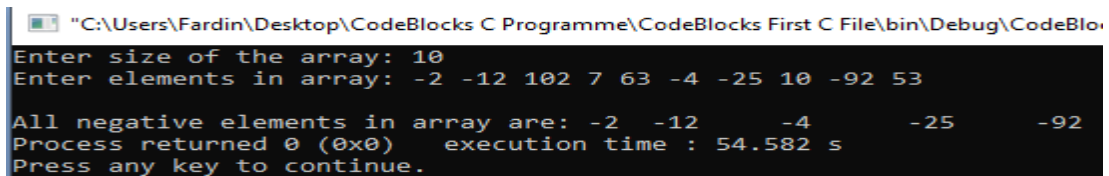
    printf("Enter size of the array: ");
    scanf("%d", &N);

    printf("Enter elements in array: ");
    for(i = 0; i < N; i++)
    {
        scanf("%d", &arr[i]);
    }

    printf("\nAll negative elements in array are: ");
    for(i = 0; i < N; i++)
    {
        if(arr[i] < 0)
        {
            printf("%d\t", arr[i]);
        }
    }

    return 0;
}
```

Output:



```
"C:\Users\Fardin\Desktop\CodeBlocks C Programme\CodeBlocks First C File\bin\Debug\CodeBlo...
Enter size of the array: 10
Enter elements in array: -2 -12 102 7 63 -4 -25 10 -92 53

All negative elements in array are: -2 -12 -4 -25 -92
Process returned 0 (0x0) execution time : 54.582 s
Press any key to continue.
_
```

Problem Name: C program to find sum of array elements.

Source Code:

```
#include <stdio.h>
#define MAX_SIZE 100

int main()
{
    int arr[MAX_SIZE];
    int i, n, sum = 0;

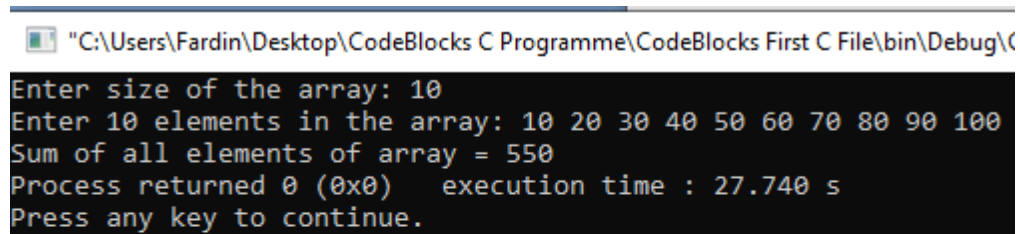
    printf("Enter size of the array: ");
    scanf("%d", &n);

    printf("Enter %d elements in the array: ", n);
    for(i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);
        sum += arr[i];
    }

    printf("Sum of all elements of array = %d", sum);

    return 0;
}
```

Output:



```
"C:\Users\Fardin\Desktop\CodeBlocks C Programme\CodeBlocks First C File\bin\Debug\
Enter size of the array: 10
Enter 10 elements in the array: 10 20 30 40 50 60 70 80 90 100
Sum of all elements of array = 550
Process returned 0 (0x0) execution time : 27.740 s
Press any key to continue.
```

Problem Name: C program to find maximum and minimum element in array.

Source Code:

```
#include <stdio.h>

#define MAX_SIZE 100

int main()
{
    int arr[MAX_SIZE];
    int i, max, min, size;

    printf("Enter size of the array: ");
    scanf("%d", &size);

    printf("Enter elements in the 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", min);

    return 0;
}
```

Output:

```
"C:\Users\Fardin\Desktop\CodeBlocks C Programme\CodeBlocks First C File\bin\Det
Enter size of the array: 10
Enter elements in the array: -10 10 0 20 -2 50 100 20 -1 10
Maximum element = 100
Minimum element = -10
Process returned 0 (0x0)   execution time : 33.927 s
Press any key to continue.
```

Problem Name:

Source Code:

```
#include <stdio.h>

int main()
{
    int flag = 0, position, goru[50] = {5, 1, 0, -15, 10, 3, 7, 100}, i, search_value;

    printf("Enter search value: ");
    scanf("%d", &search_value);

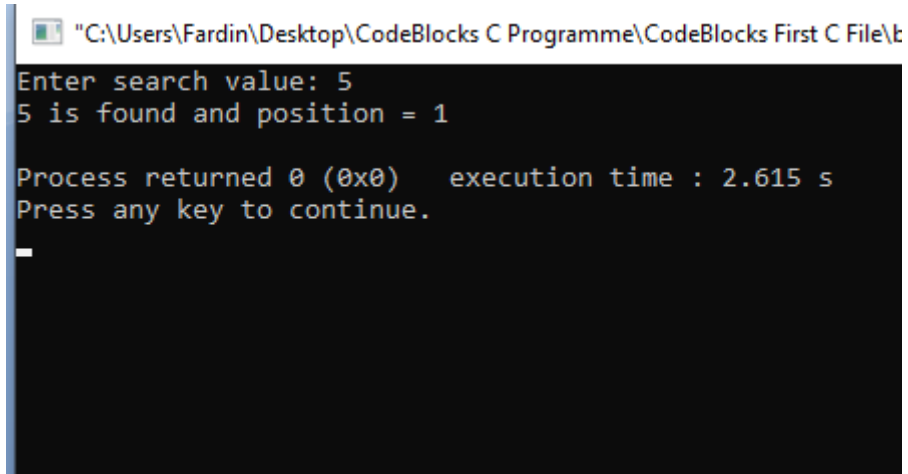
    for(i = 0; i < 8; i++)
    {
        if(search_value == goru[i])
        {
            flag = 1;
            position = i;
            break;
        }
    }

    if(flag == 1)
        printf("%d is found and position = %d\n", search_value, position + 1);
    else
        printf("Value is not found\n");

    return 0;
```

}

Output:



```
"C:\Users\Fardin\Desktop\CodeBlocks C Programme\CodeBlocks First C File\l
Enter search value: 5
5 is found and position = 1

Process returned 0 (0x0)   execution time : 2.615 s
Press any key to continue.
_
```