C n_sum.c   C p_n.c   C AREA2.c   C VOLUME1.c   C VOLUME2.c   C VOLUME3.c   C sum.c   C diff_triangles.c   C 02_labTest.c   C abc.c ✕   C 04_labTest.c   C 03b_labTest.c

C abc.c > ⊗ main()

```c
 1    // Q106: Write a program to take an array arr[] of integers as input, the task is to find the next greater element for each element of the array in order of their appearance in the array.
 2
 3    /* N.B:
 4    - Print the output for each element in a comma separated fashion.
 5    - Do not use Stack, use brute force approach (nested loop) to solve. */
 6
 7    /*
 8    Sample Test Cases:
 9    Input 1:
10    arr = [1, 3, 2, 4]
11    Output 1:
12    3, 4, 4, -1
13
14    Input 2:
15    arr = [6, 8, 0, 1, 3]
16    Output 2:
17    8, -1, 1, 3, -1
18
19    Input 3:
20    arr = [1, 2, 3, 5]
21    Output 3:
22    2, 3, 5, -1
23
24    Input 4:
25    arr = [5, 4, 3, 1]
26    Output 4:
27    -1, -1, -1, -1
28
29    */
30
31    #include <stdio.h>
32
33    int main() {
34        int n, i, j, next;
35        printf("Enter number of elements: ");
36        scanf("%d", &n);
37        int arr[n];
38        printf("Enter %d elements: ", n);
39        for (i = 0; i < n; i++)
40            scanf("%d", &arr[i]);
41        for (i = 0; i < n; i++) {
42            next = -1;
43            for (j = i + 1; j < n; j++) {
44                if (arr[j] > arr[i]) {
45                    next = arr[j];
46                    break;
47                }
48            }
49            printf("%d", next);
50            if (i != n - 1)
51                printf(", ");
52        }
53        printf("\n");
54        return 0;
55    }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\abc.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter number of elements: 4
Enter 4 elements: 1 3 2 4
3, 4, 4, -1
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\abc.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter number of elements: 5
Enter 5 elements: 6 8 0 1 2
8, -1, 1, 2, -1
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\abc.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter number of elements: 4
Enter 4 elements: 1 2 3 5
2, 3, 5, -1
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\abc.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
Enter number of elements: 4
Enter 4 elements: 5 4 3 1
-1, -1, -1, -1
PS C:\Users\drago\OneDrive\Desktop\C H.W>
```