```c
C abc.c > ⊕ main()
 1     // Q109: Write a program to take an integer array arr and an integer k as inputs. Print the maximum sum of all the subarrays of size k.
 2
 3     /*
 4     Sample Test Cases:
 5     Input 1:
 6     arr[100, 200, 300, 400] = , k = 2
 7     Output 1:
 8     700
 9
10     Input 2:
11     arr[1, 4, 2, 10, 23, 3, 1, 0, 20] = , k = 4
12     Output 2:
13     39
14
15     Input 3:
16     arr[100, 200, 300, 400] = , k = 1
17     Output 3:
18     400
19
20     */
21
22     #include <stdio.h>
23
24     int main() {
25         int n, k, i, j, sum, maxSum;
26         printf("Enter number of elements: ");
27         scanf("%d", &n);
28
29         int arr[n];
30         printf("Enter %d elements: ", n);
31         for (i = 0; i < n; i++)
32             scanf("%d", &arr[i]);
33
34         printf("Enter k: ");
35         scanf("%d", &k);
36
37         maxSum = -1000000; // very small number
38
39         for (i = 0; i <= n - k; i++) {
40             sum = 0;
41             for (j = i; j < i + k; j++) {
42                 sum += arr[j];
43             }
44             if (sum > maxSum)
45                 maxSum = sum;
46         }
47
48         printf("%d\n", maxSum);
49         return 0;
50     }
```

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: 100 200 300 400
Enter k: 2
700
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: 9
Enter 9 elements: 1 4 2 10 23 3 1 0 20
Enter k: 4
39
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: 100 200 300 400
Enter k: 1
400
PS C:\Users\drago\OneDrive\Desktop\C H.W> 
```