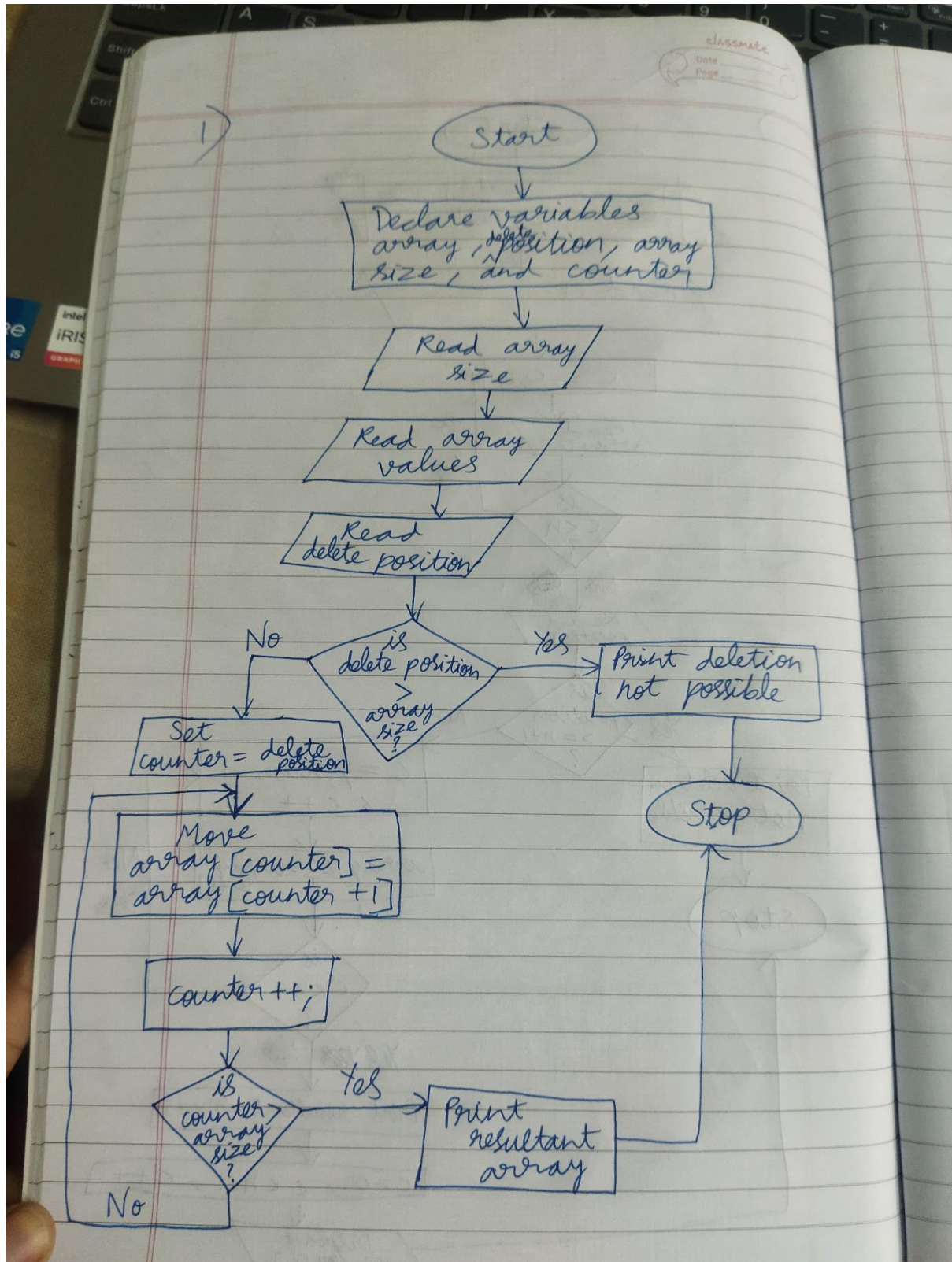


## LAB ASSIGNMENT 8

1)

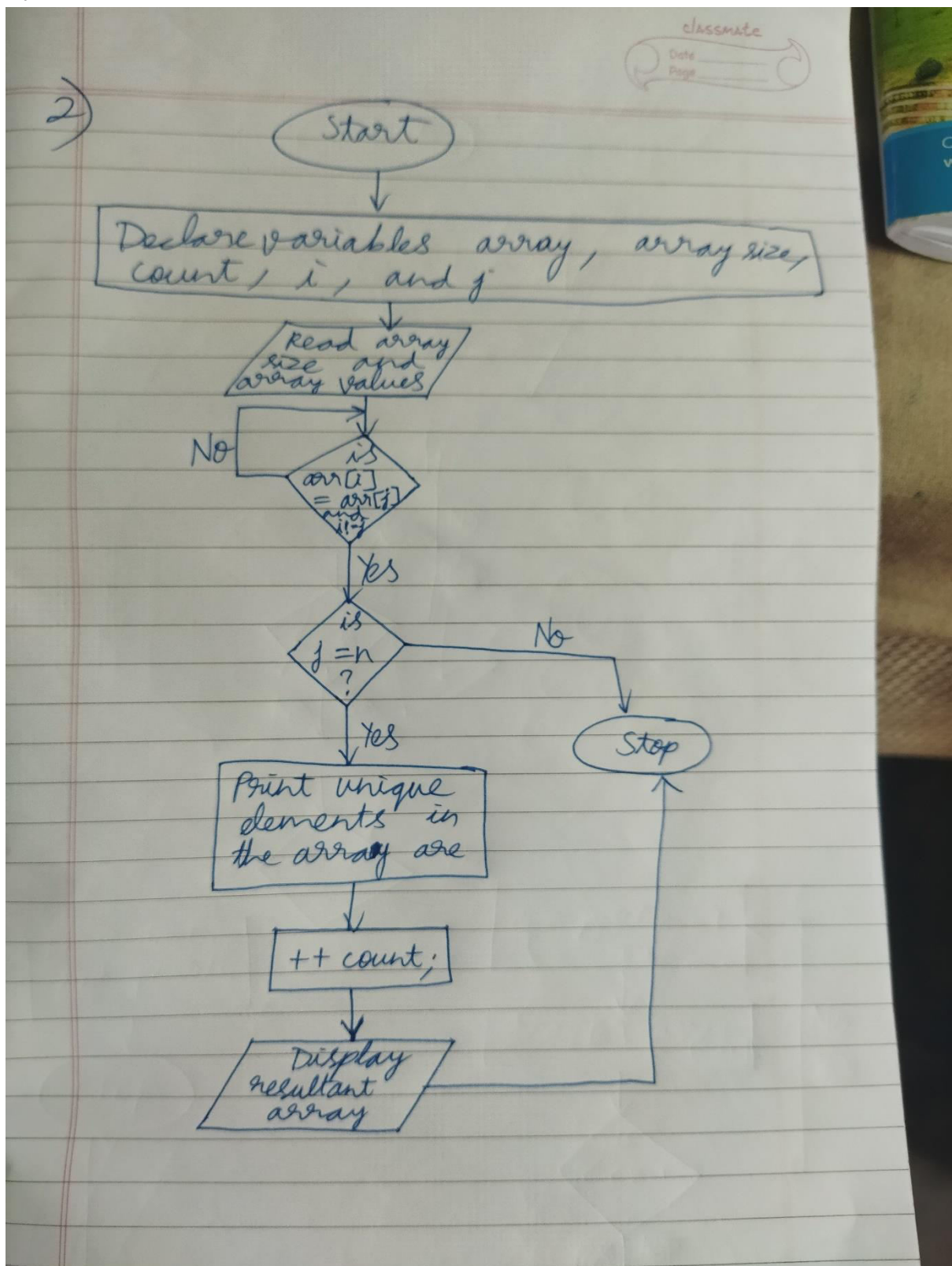


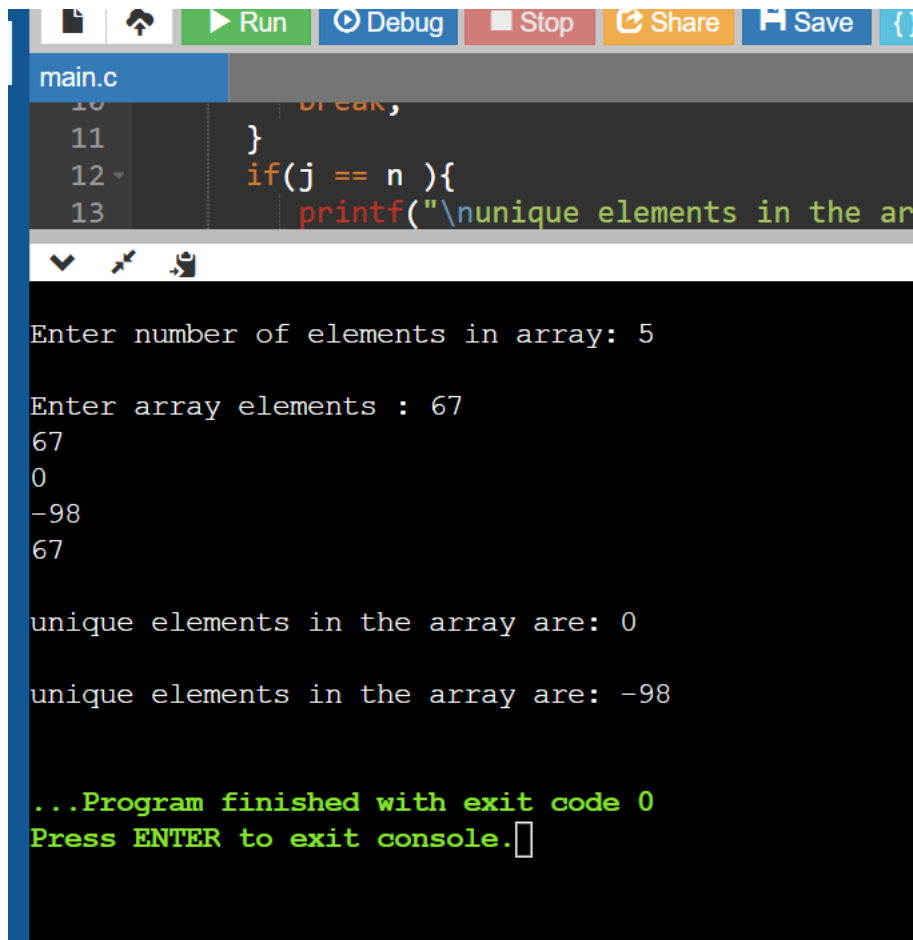
```
main.c
12 scanf("%d", &array[i]);
13
14 printf("Enter the location where you wish to delete element: ");
15 scanf("%d", &position);

Enter number of elements in array
5
Enter 5 elements
67
-90
0
1
23
Enter the location where you wish to delete element
4
Resultant array:
67
-90
0
23

...Program finished with exit code 0
Press ENTER to exit console.
```

2)





The image shows a code editor window with a file named 'main.c'. The code is a C program that counts unique elements in an array. The visible code lines are:

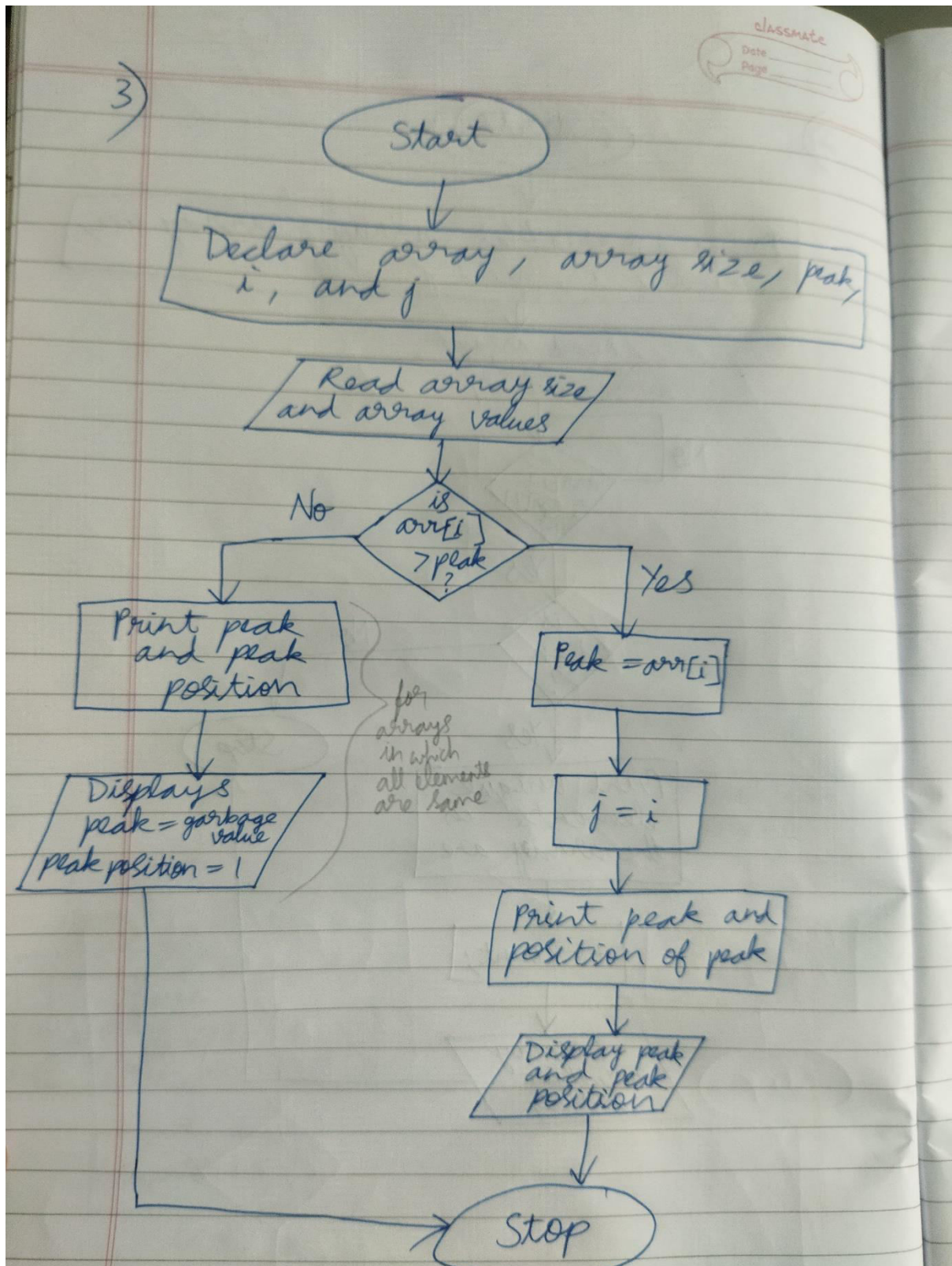
```
10 break;  
11 }  
12 if(j == n ){  
13 printf("\nunique elements in the ar
```

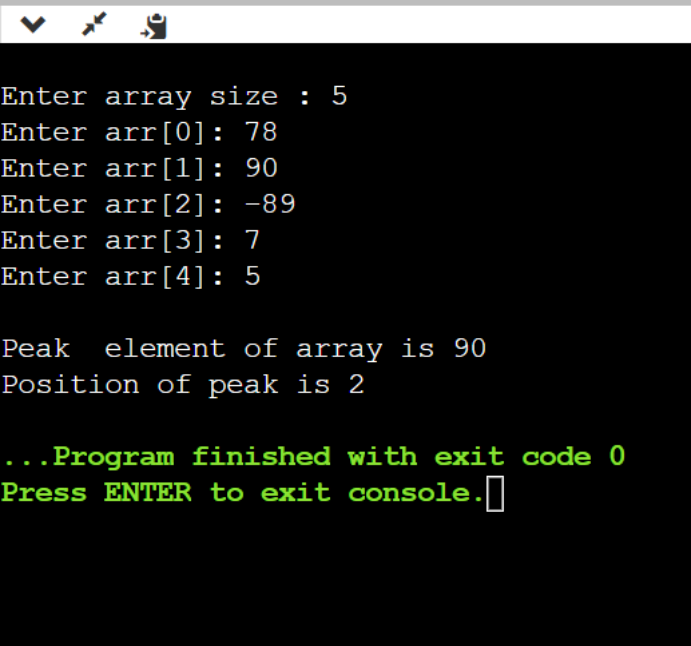
Below the code editor is a console window showing the program's execution. The user enters the number of elements as 5 and the array elements as 67, 0, -98, and 67. The program outputs the unique elements as 0 and -98, and then finishes with exit code 0.

```
Enter number of elements in array: 5  
  
Enter array elements : 67  
67  
0  
-98  
67  
  
unique elements in the array are: 0  
  
unique elements in the array are: -98  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```



3)



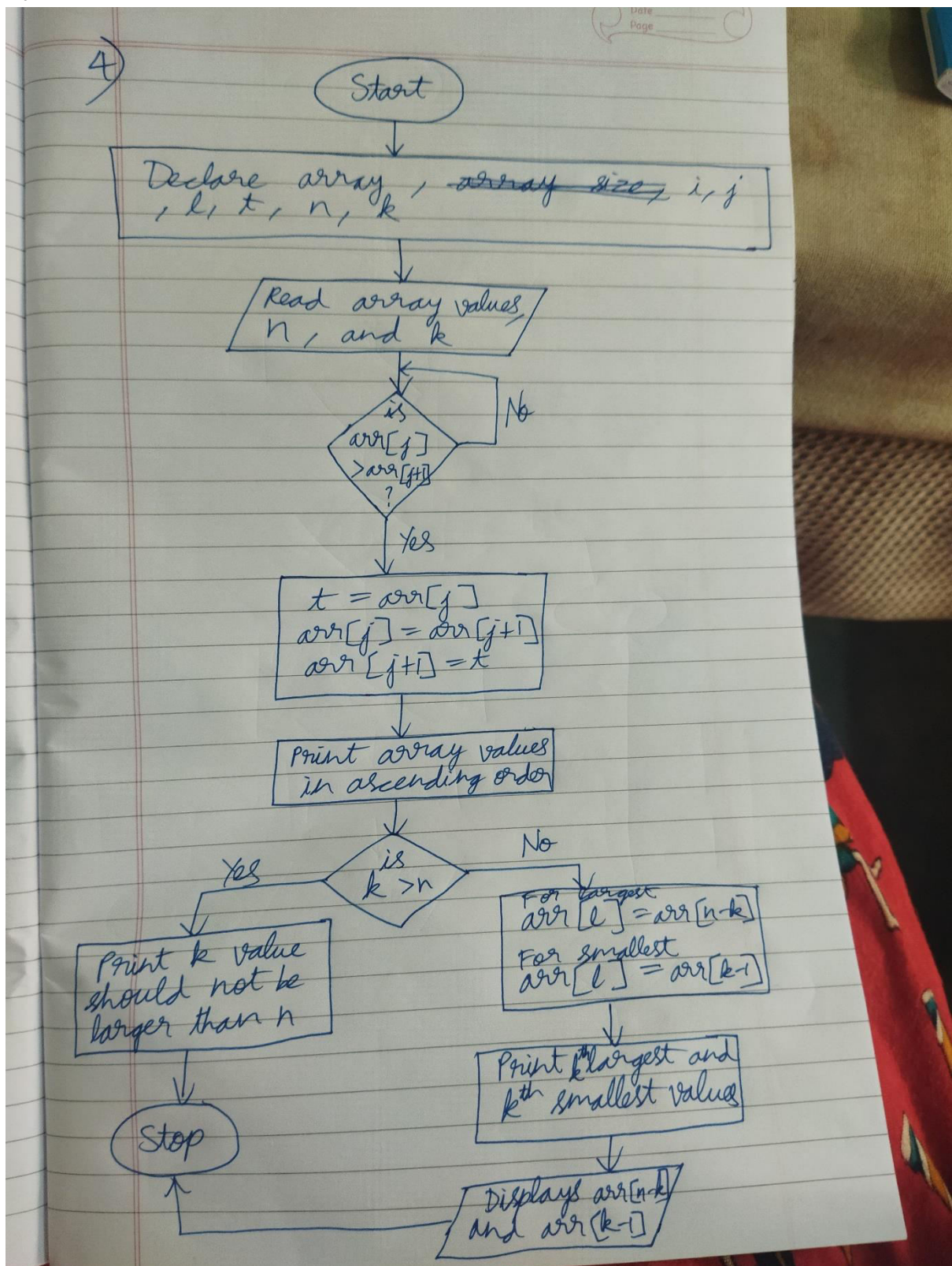
A terminal window with a dark background and light gray text. The window has a title bar with three icons: a checkmark, a magnifying glass, and a document. The text inside the terminal shows a sequence of inputs and outputs for a program. The inputs are for an array size of 5 and five array elements: 78, 90, -89, 7, and 5. The outputs show the peak element is 90 at position 2. The program ends with a green message indicating it finished with exit code 0 and a prompt to press ENTER to exit the console.

```
Enter array size : 5
Enter arr[0]: 78
Enter arr[1]: 90
Enter arr[2]: -89
Enter arr[3]: 7
Enter arr[4]: 5

Peak element of array is 90
Position of peak is 2

...Program finished with exit code 0
Press ENTER to exit console.
```

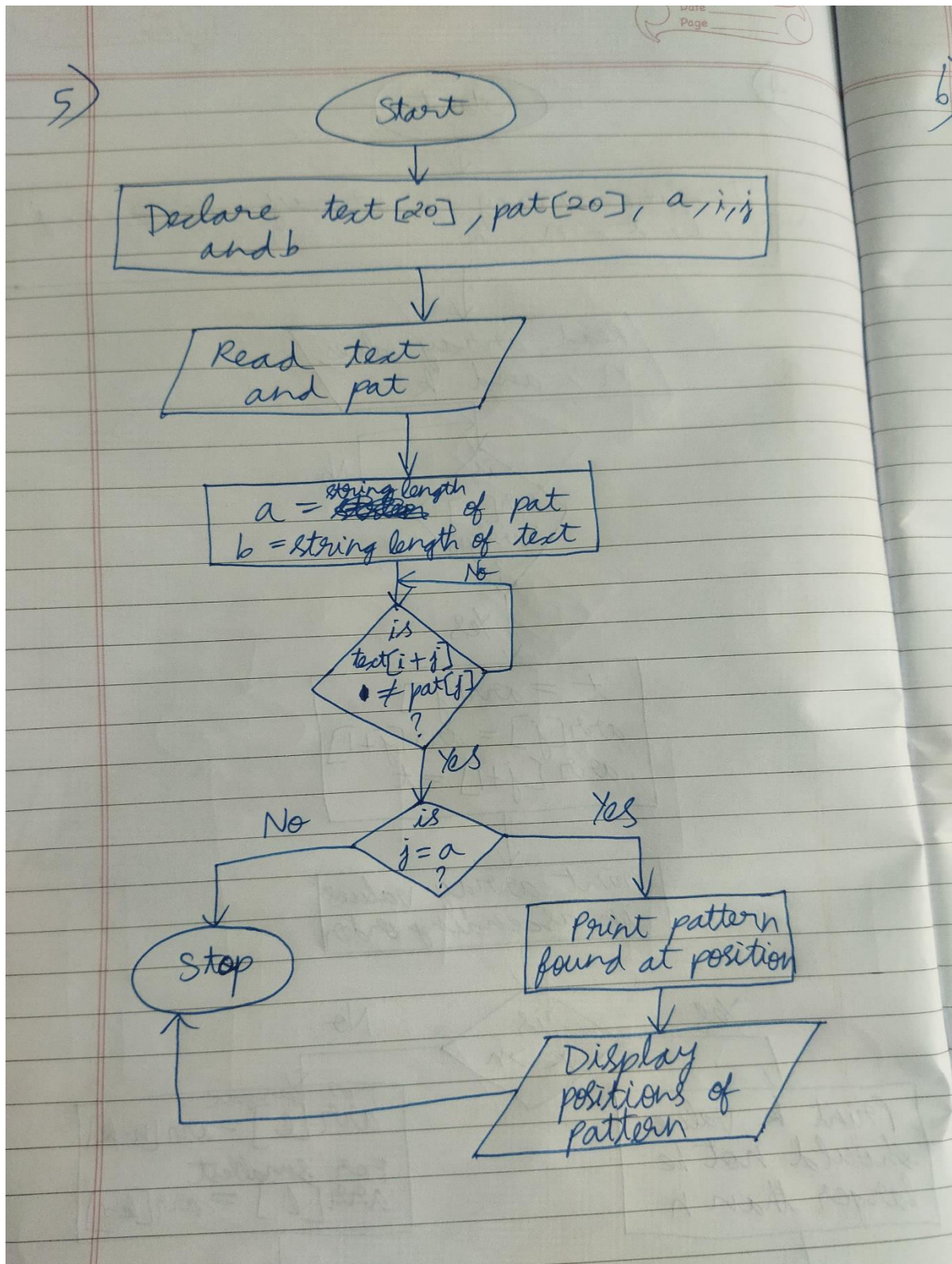
4)



main.c		Run	Output
21	for (i=0; i<n; i++){		/tmp/xqVS4hdVL7.o
22	for(j=0; j<n-i-1; j++){		Enter size of array:
23	if (arr[j]>arr[j+1]){		5
24	t=arr[j];		Enter array elements:
25	arr[j]=arr[j+1];		90
26	arr[j+1]=t;		-89
27	}		0
28	}		45
29	}		7
30			Enter value of k:
31			2
32	//printing sorted array		The sorted list is: -89 0 7 45 90
33	printf("The sorted list is: ");		The 2th largest element is 45
34	for (i=0; i<n; i++){		The 2th smallest element is 0
35	printf("%d ", arr[i]);		
36	}		
37			
38	arr[1]=arr[1];		



5)



```
16     printf("\nEnter the pattern to find\n");
17     scanf("%s",pat);
```

Enter the string :abcabcdghj

the string is: abcabcdghj

Enter the pattern to find : abc

the pattern to find is: abc

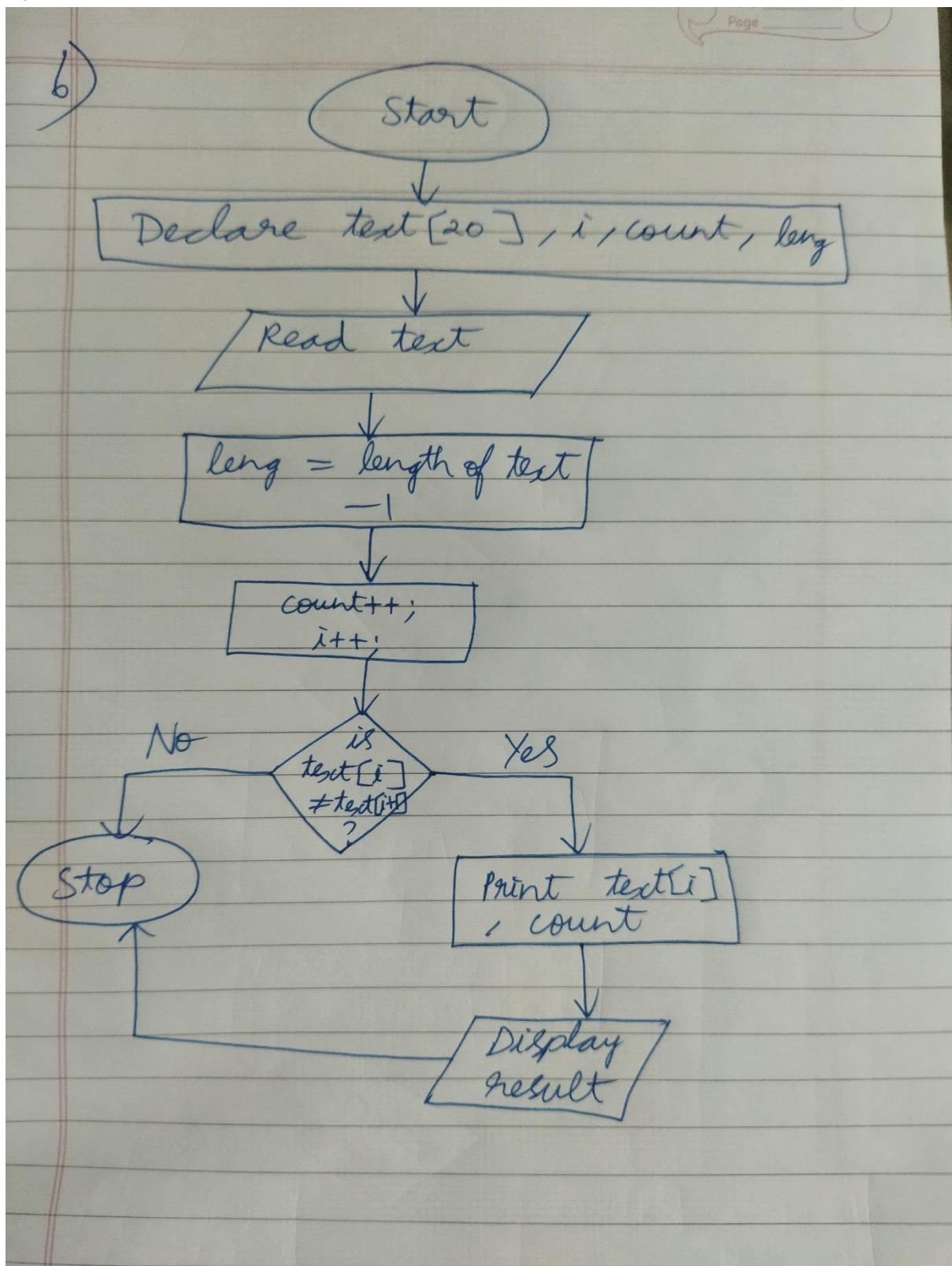
Pattern found at position 1

Pattern found at position 4

...Program finished with exit code 0

Press ENTER to exit console.

6)



```
12     leng = strlen(text)-1;  
13  
Enter the string :AbcfghAbcd.;  
  
the string is: AbcfghAbcd.;  
A1b1c1f1g1h1A1b1c1d1.1;1  
  
...Program finished with exit code 0  
Press ENTER to exit console.[]
```