1- Write a to test if an array contains a specific value if it is in the array print Yes if its not print no.

```
Ex:
Enter a size of array:
5
Enter numbers:
12345
Enter a specific value:
5
Output: yes
```

2- Write a program to calculate the average value of array elements.

```
Ex:
```

Enter a size of array:

5

Enter numbers:

12345

Output : average = 3

3- Write a program to find the second smallest element in an array.

Ex:

Enter a size of array:

5

Enter numbers:

54231

Output : second smallest = 2

4-Write a program that reads student scores, gets the best score.

and then assigns grades based on the following scheme:

Grade is A if score is Ú best - 10

Grade is B if score is Ú best - 20;

Grade is C if score is Ú best - 30;

Grade is D if score is Ú best - 40;

Grade is F otherwise.

The program prompts the user to enter the total number of students, then prompts

the user to enter all of the scores, and concludes by displaying the grades. Hereis a sample run:

```
Enter the number of students: 4
Enter 4 scores:
40
55
70
58
Student 1 score is 40 and grade is C
Student 2 score is 55 and grade is B
Student 3 score is 70 and grade is A
Student 4 score is 58 and grade is B
```

5)Write a program that reads the integers between 1 and 100 and counts the occurrences of each. Assume the input ends with 0. Here

is a sample run of the program:

```
Enter the integers between 1 and 100: 2 5 6 5 4 3 23 43 2 0
2 occurs 2 times
3 occurs 1 time
4 occurs 1 time
5 occurs 2 times
6 occurs 1 time
23 occurs 1 time
```

40			rs 1	4.5	
4 3	C	ווי	re 1	I TI	mΔ
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6)Write a function that takes a string sentence from the user and remove a specific letter that the user will enter, then print it.

Example:

Type a sentence:

This is a test

Choose the letter: s

Output: thi i a tet (Letter 's' is removed)

7)Write a function that takes an integar list from the user by entering each element one by one ,then prints the average of these numbers.

Example:

Enter the numbers: 1 2 3

The average: 2

8) Write a function that takes a sentence from the user and returns the longest word in the sentence.

Example:

Type a sentence:

My name is mohamed

The longest word: mohamed