Assignment Questions on Arrays

1. Write a program to find the maximum and minimum element of an array of size n

```
Input:
N = 5
A[]  = {1, 345, 234, 21, 56789}
Output:
min = 1, max = 56789
```

2. Write a program to print an array of n elements in the reverse order

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Input:
N = 5
A[]  = {1, 345, 234, 21, 56789}
Output:
56789,21,234,345,1
```

3. Write a program to sort an array of n elements

```
Input:

N = 4

arr[] = {1, 5, 3, 2}

Output: {1, 2, 3, 5}
```

4. Write a program to find the frequency of a number x in an array of size n.

```
Input:

N = 6

arr = {1, 2, 3, 2, 1,1}

X = 1

Output: 3
```

5. Write a program to find the sum and average of one dimensional integer array of size n

6. Write a menu driven C++ program to do following operation on two dimensional array A of size m x n. You should use user-defined functions which accept 2-D array A, and its size m and n as arguments. The options are:

- To input elements into matrix of size m x n
- To display elements of matrix of size m x n
- Sum of all elements of matrix of size m x n
- To display row-wise sum of matrix of size m x n
- To display column-wise sum of matrix of size m x n
- To create transpose of matrix B of size n x m

7. Write a program to multiply array A and B of order NxL and LxM
8. Write a Program that finds second largest & smallest elements in an array.
9. Write a program that prints the alternate elements in an array.