Practice 10.5 Array-related problems

1. WAP that will take n integer numbers into an array, and then sum up all the integers in that array.

Sample input	**Sample output**
5 1 2 3 4 5	15
6 2 8 3 9 0 1	23

2. WAP that will take n integer numbers into an array, and then sum up all the integers in the even indexed Position.

Sample input	**Sample output**
5 1 2 3 4 5	9
6 2 8 3 9 0 1	5

3. WAP that will take n integer numbers into an array, and then reverse all the integers within that array. Finally, print them all from 0 index to the last valid index.

Sample input	**Sample output**
5 1 2 3 4 5	5 4 3 2 1
6 2 8 3 9 0 1	1 0 9 3 8 2

4. WAP that will take n integer numbers into an array, and then find the maximum -minimum among them with its index position.

Sample input	**Sample output**
5 1 2 3 4 5	Max: 5, Index: 4 Min: 1, Index: 0
6 2 8 3 9 0 1	Max: 9, Index: 3 Min: 0, Index: 4

5. WAP that will take n integers into an array, and then search a number into that array. If found then print its index. If not found then print “NOT FOUND”.

Sample input	**Sample output**
8 7 8 1 3 2 6 4 3 3	FOUND at index position: 3, 7
8 7 8 1 3 2 6 4 3 5	NOT FOUND

6. WAP that will take n integers into an array A and m positive integers into array B. Now find the intersection (set operation) of arrays A and B.

Sample input	**Sample output**
8 7 8 1 5 2 6 4 3 6 1 3 6 0 9 2	1 2 6 3
3 1 2 3 2 4 5	Empty set

7. WAP that will take n positive integers into an array A. Now find all the integers that are divisible by 3 and replace them by -1 in array A. Finally show all elements of array A.

Sample input	**Sample output**
8 7 8 1 3 2 6 4 3	7 8 1 -1 2 -1 4 -1
3 3 2 1	-1 2 1

8. WAP that will take n integers into an array A. Now remove all duplicate numbers from that array. Finally, print all elements from that array.

Sample input	**Sample output**
8 2 8 1 3 2 6 4 3	2 8 1 3 6 4
3 3 3 3	3
4 6 7 8 9	6 7 8 9