Q.1) Print 2nd largest and 2nd smallest elements from a given integer array 'arr' of size arr_len in a single loop.

Method Signature

```
void print2nd(int arr[], int arr_len) {
//Your code here
}
```

Example 1
Input:
arr[]: 5, 10, 0, 2, 3, 4
arr_size = 6
Output: 2, 5

```
package logic;

public class SecondMinMax {

public static void secondminmax(int[] arr, int arr_len) {
int firstmin = Integer.MAX_VALUE, secondmin = Integer.MAX_VALUE;
int firstmax = Integer.MIN_VALUE, secondmax = Integer.MIN_VALUE;

for (int x : arr) {

if (x < firstmin) {
secondmin = firstmin;
firstmin = x;
} else if (x < secondmin && x != firstmin) {
secondmin = x;
}

if (x > firstmax) {
secondmax = firstmax;
firstmax = x;
} else if (x > secondmax && x != firstmax) {
secondmax = x;
}
}

System.out.println("Second Smallest = " + secondmin);
System.out.println("Second Largest = " + secondmax);
}

public static void main(String[] args) {
int[] arr = { 5, 10, 0, 2, 3, 4 };
int arr_size = 6;
secondminmax(arr, arr_size);
}
}
```

Q.2) Given 2 sorted arrays of integers, print common elements between 2 arrays in single loop.
Method Signature void printCommon(int[] arr1, int [] arr2, int arr1_len, int arr2_len) { }

Example 1

Input-
arr1[] = {1, 3, 4, 5, 7}
arr2[] = {2,3,5, 6}
Output: 3,5

Example 2
Input -
arr1[] = {2,5, 6}
arr2[] = {4, 6, 8, 10}
Output: 6

```
package logic;

public class CommonElements {

public static void printCommon(int[] arr1, int[] arr2, int arr1_len, int arr2_len) {
int i = 0, j = 0;

while (i < arr1_len && j < arr2_len) {
if (arr1[i] == arr2[j]) {
System.out.print(arr1[i] + " ");
i++;
j++;
} else if (arr1[i] < arr2[j]) {
i++;
} else {
j++;
}
}
}

public static void main(String[] args) {
// int[] arr1 = { 1, 3, 4, 5, 7 };
// int[] arr2 = { 2, 3, 5, 6 };
int[] arr1 = { 2, 5, 6 };
int[] arr2 = { 4, 6, 8, 10 };
printCommon(arr1, arr2, arr1.length, arr2.length);
}
}
```