Worksheet for Week 7 Tutorial Q2

Given an array of integers: `int[] arr = {1, 3, 6, 5, 2, 4, 7}`, we use the following enhanced bubble sort algorithm to sort the data in the array. Show the contents of the array **arr** at the end of each pass.

```java
public static void bubbleSortEnhanced(int[] arr) {

  boolean done = false;

  for (int end = arr.length-1; end>0 && !done; end--) {
    done = true;
    for (int i = 0; i < end; i++) {
      if (arr[i] > arr[i+1]) {
        int temp = arr[i];
        arr[i] = arr[i+1];
        arr[i+1] = temp;
        done = false;
      }
    }
  }
}
```

Show the contents of the array at the end of each pass. Use as many passes as necessary.

	arr[0]	[1]	[2]	[3]	[4]	[5]	[6]
	1	**3**	**6**	**5**	**2**	**4**	**7**
Pass 1	1	3	5	2	4	6	7
Pass 2	1	3	2	4	5	6	7
Pass 3	1	2	3	4	5	6	7
Pass 4	1	2	3	4	5	6	7
Pass 5							
Pass 6							