

Please note the following corrections/ clarifications in Assignment 3:

1) In Q1, we follow the Binary Search pseudo code as we learned in the theory class:

Hence, the sample input is modified as follows:

**Sample Input 2:**

7

12 35 50 59 60 73 90

100

**Sample Output 2:**

-1

4

2) In Q3, there is a typographic error in Sample Input 2 (the first line of Sample Input 2 is 6 6 instead of 4 6). Hence, the sample input and output is modified as follows (**Note that the sample output is empty as there is no element common to both the arrays**).

**Sample Input 2:**

6 6

33 25 56 19 77 67

6 5 4 3 2 1

**Sample Output 2:**

3) In Q4 and Q5, we follow the Merge procedure as specified in the CLRS book. Hence the total number of comparisons includes the comparisons made with sentinel values also.

Hence the sample input/ output of Q4 is modified as follows:

**Sample Input 1:**

10

23 76 89 3 8 0 789 123 889 25

**Sample Output 1:**

0 3 8 23 25 76 89 123 789 889

34

**Sample Input 2:**

10

90 89 78 67 56 45 34 23 12 11

**Sample Output 2:**

11 12 23 34 45 56 67 78 89 90

34

The sample input/ output of Q5 is modified as follows:

**Sample Input 1:**

10

23 76 89 3 8 0 789 123 889 25

**Sample Output 1:**

17

34

**Sample Input 2:**

10

90 89 78 67 56 45 34 23 12 11

**Sample Output 2:**

45

34