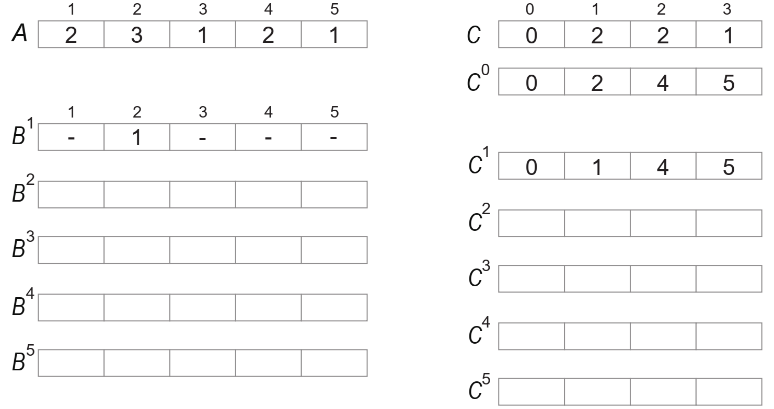
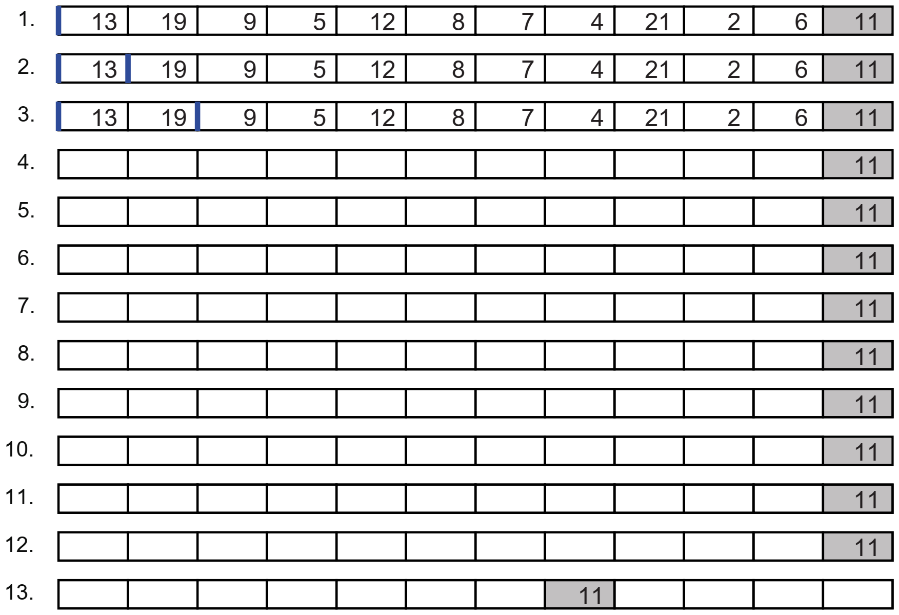
Algorithms and Data Structures  
Algorithm Assignment: Lecture 6

ID: Name:

1. Using the algorithm, Counting Sort, sort a sequence A = {2, 3, 1, 2, 1} in ascending order. You should illustrate how the algorithm works on the sequence by showing intermediate results of *Bk* and *Ck*. (please see the lecture note for the details of these arrays).

2. Illustrate a procedure of the Partition for a sequence *A = {13, 19, 9, 5, 12, 8, 7, 4, 21, 2, 6, 11}*. You should follow the pseudocode presented in the lecture note.

3. Illustrate a procedure of the Quick Sort algorithm for a sequence *A* which is obtained by the step **13** of the previous question. You should use the pseudocode defined in the lecture note.

