Problem 2



1. After the first loop, the index, i, corresponds to the number of times ${\tt i}$ occurs in A.



- 0 1
- 1 1
- 2 0
- 3 2
- _
- 4 1
- 5 4
- 6 1
 - 2. After the second loop, the array C represents, at each index, i, the number of items that are greater than or equal to the value of C[i]. Since all the items in the list must be less than or equal to the maximum of the list, C[last] = A.length.

Index Value

- 0 1
- 1 2
- 2 2
- 3 4
- 4 5
- 5 9
- 6 10
 - 3. After the third loop, C = [0, 1, 2, 2, 4, 5, 9]
 - 4. Sorted array = [0, 1, 3, 3, 4, 5, 5, 5, 5, 6]