Review 7

1. Illustrate the operation of COUNTING-SORT on the array A={6,2,1,3,1,3,2}.

A

6	2	1	3	1	3	2

	1	2	3	4	5	6
C	2					1

	1	2	3	4	5	6
C	2					7

	1	2	3	4	5	6	7
B				2			

	1	2	3	4	5	6
C	2	3	6	6	6	7

	1	2	3	4	5	6	7
B							

	1	2	3	4	5	6
C						

	1	2	3	4	5	6	7
B							

	1	2	3	4	5	6
C						

	1	2	3	4	5	6	7
B							

	1	2	3	4	5	6
C						

⋮

2. Fill in the following RADIX-SORT example.

C O W
D O G
S E A
R U G
R O W
M O B
B O X
T A B
B A R
E A R
T A R

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S E A
M O B
T A B
D O G
R U G
B A R
E A R
T A R
C O W
R O W
B O X

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