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

⇨

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

⇨

⇨