Homework 17

1. Spring 2012 Final Question 6 [1]

Consider running LSD string sort on the input array a[ ] of 20 strings. Give the contents of the array a[ ] immediately after the fourth call to key-indexed counting for the indices 0–5 and 15–19.

i	a[i] (input)	i	a[i] (fourth)
0	heard	0	rabid
1	beard	1	cable
2	cable	2	table
3	cache	3	fable
4	scald	4	sable
5	scale	5	cache
6	medic	6	badge
7	table	7	*not required*
8	badge	8	*not required*
9	weave	9	*not required*
10	heave	10	*not required*
11	hedge	11	*not required*
12	fable	12	*not required*
13	leave	13	*not required*
14	wedge	14	leave
15	ledge	15	hedge
16	media	16	wedge
17	rabid	17	ledge
18	sable	18	media
19	scare	19	medic