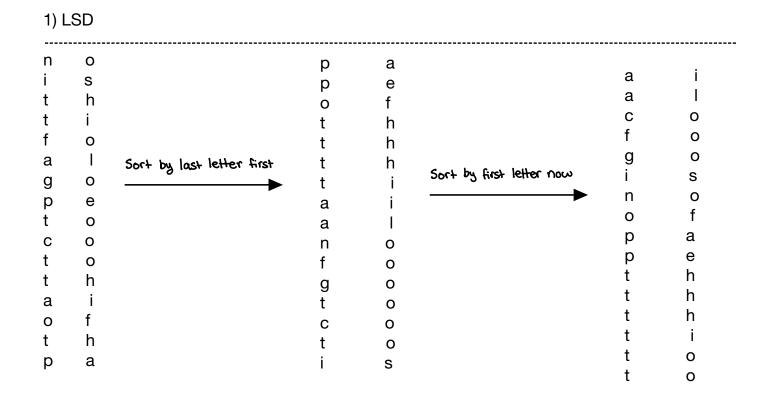
OCS 25 - Data Structures and Algorithms Programming Assignment – 7 String Sorting

String sorts

- Give a trace for LSD string sort for the keys
 no is th ti fo al go pe to co to th ai of th pa
- 2) Give a trace for MSD string sort for the keys no is th ti fo al go pe to co to th ai of th pa
- 3) Give a trace for MSD string sort for the keys now is the time for all good people to come to the aid of



n	0		а	I		а	i
i	S		а	i		а	1
t	h						
t	i		С	0		С	0
f	0						
a	- 1		f	0		f	0
9	0	a Cod Lib No.		••••••			
р +	e	Sort the first letter first	g	0	Sort by the last letter now	g	0
C	0		:		>	;	0
t	0			S		I	S
t	h		n	0		n	0
a	i					""	O
0	f		0	f		0	f
t	h						
р	а		р	е		р	а
			p	а		p	е
			t	h		t	h
			t	i		t	h
			t	0		t	h
			t	0		t	i
			t	h		t	0
			t	h		t	0

If two words have the same first letter, use recursion to keep them in the same "box" to prevent overriding.

Only sort by last letter within boxes.

now	all	aid	aid	If index≥word.length, word.charAt(index)=-1. Here this is illustrated by periods which will be
is the	aid	all	all	
time for	come	come	come	given the lawest lexicographical value, which is not actually
all good	for	for	for	true in ASCII, but Put here for visual illustration
to Sect 13, 16746.	good Sw+ 2 ^{wl}	good sort 3rd	good	THE THE VISUAL INCOME.
come to	is	is	is	
the aid	now of	now	now	
of		of	of	
-	people 	people	people	
	the time to to the	the the	the the	
		time	time	
		to to	to to	MSD will also sort by the

MSD will also sort by the 4^m , 5^m , and 6^m letters, but nothing more will change here.