

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	0	0	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bcb\$
3	0	0	0	5	8=b\$
4	1	0	0	6	0=catccabcb\$
5	0	0	0	1	3=ccabcb\$
6	0	0	0	2	4=cabcb\$
7	0	0	0	7	7=cb\$
8	1	0	0	3	2=tccabcb\$
9	1	0	0	9	9=\$

At the beginning the suffix array is sorted with respect to the first character. After the complete iteration it will be sorted w.r.t. the first two characters

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	0	0	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bc\$b\$
3	0	0	0	4	8=b\$
4	1	0	0	4	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	0	0	2	4=cabcb\$
7	0	0	0	4	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

Set the sufinv entries to the beginning of the bucket

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
*0	1	0	0	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bc\$b\$
3	0	0	0	4	8=b\$
4	1	1	1	4	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	0	0	2	4=cabcb\$
7	0	0	0	4	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 0 at begin of its bucket:

count[4] = 1

sufinv[0]=4

B2h[4]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	0	0	4	1=atccabcb\$
*1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bcb\$
3	0	0	0	4	8=b\$
4	1	1	2	5	0=catccabcb\$
5	0	1	0	0	3=ccabcb\$
6	0	0	0	2	4=cabcb\$
7	0	0	0	4	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 4 at second position of its bucket:

count[4] = 2

sufinv[4]=5

B2h[5]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	0	0	4	1=atccabcb\$
*1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bcb\$
3	0	0	0	4	8=b\$
4	1	1	2	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	0	0	2	4=cabcb\$
7	0	0	0	4	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

Done with first bucket, set B2h[5] to zero

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
*2	1	0	0	8	6=bc\$b\$
3	0	0	0	4	8=b\$
4	1	1	2	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	0	0	2	4=cabcb\$
7	0	0	0	4	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 5 at begin of its bucket:

count[0] = 1

sufinv[5]=0

B2h[0]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bcb\$
*3	0	0	0	4	8=b\$
4	1	1	3	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	0	0	6	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 7 at third position of its bucket:

count[4] = 3

sufinv[7]=6

B2h[6]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bc\$b\$
*3	0	0	0	4	8=b\$
4	1	1	3	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	0	0	6	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

Done with second bucket, nothing to do

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bc\$b\$
3	0	0	0	4	8=b\$
*4	1	1	3	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	0	0	6	7=cb\$
8	1	0	0	2	2=tccabcb\$
9	1	0	0	9	9=\$

Nothing to do for suffix -1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bc\$b\$
3	0	0	0	4	8=b\$
4	1	1	3	5	0=catccabcb\$
*5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	0	0	6	7=cb\$
8	1	1	1	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 2 at begin of its bucket:

count[8] = 1

sufinv[2]=8

B2h[8]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	0	0	8	6=bcb\$
3	0	0	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
*6	0	1	0	2	4=cabcb\$
7	0	1	0	6	7=cb\$
8	1	1	1	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 3 at fourth position of its bucket:

count[4] = 4

sufinv[3]=7

B2h[7]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	1	1	8	6=bc\$b\$
3	0	0	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
*7	0	1	0	6	7=cb\$
8	1	1	1	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 6 at first position of its bucket:

count[2] = 1

sufinv[6]=2

B2h[2]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	1	1	8	6=bc\$b\$
3	0	0	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
*7	0	1	0	6	7=cb\$
8	1	1	1	2	2=tccabcb\$
9	1	0	0	9	9=\$

Done with third bucket.

Nothing to do

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	1	4	1=atccabcb\$
1	0	0	0	0	5=abcb\$
2	1	1	1	8	6=bc\$b\$
3	0	0	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	1	0	6	7=cb\$
*8	1	1	1	2	2=tccabcb\$
9	1	0	0	9	9=\$

Starting with fourth bucket:

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	2	4	1=atccabcb\$
1	0	1	0	1	5=abcb\$
2	1	1	1	8	6=bcb\$
3	0	0	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	1	0	6	7=cb\$
*8	1	1	1	2	2=tccabcb\$
9	1	0	0	9	9=\$

put suffix 1 at second position of its bucket:

count[0] = 2

sufinv[1]=1

B2h[1]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	2	4	1=atccabcb\$
1	0	1	0	1	5=abcb\$
2	1	1	1	8	6=bc\$b\$
3	0	0	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	1	0	6	7=cb\$
*8	1	1	1	2	2=tccabcb\$
9	1	0	0	9	9=\$

Done with fourth bucket.
Nothing to do

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	2	4	1=atccabcb\$
1	0	1	0	1	5=abcb\$
2	1	1	1	8	6=bc\$b\$
3	0	0	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	1	0	6	7=cb\$
8	1	1	1	2	2=tccabcb\$
*9	1	0	0	9	9=\$

start with fifth bucket.

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	2	4	1=atccabcb\$
1	0	1	0	1	5=abcb\$
2	1	1	2	8	6=bcb\$
3	0	1	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	1	0	6	7=cb\$
8	1	1	1	3	2=tccabcb\$
*9	1	0	0	9	9=\$

put suffix 8 at second position of its bucket:

count[2] = 2

sufinv[8]=3

B2h[3]=1

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	1	2	4	1=atccabcb\$
1	0	1	0	1	5=abcb\$
2	1	1	2	8	6=bcb\$
3	0	1	0	7	8=b\$
4	1	1	4	5	0=catccabcb\$
5	0	0	0	0	3=ccabcb\$
6	0	1	0	2	4=cabcb\$
7	0	1	0	6	7=cb\$
8	1	1	1	3	2=tccabcb\$
*9	1	0	0	9	9=\$

First scan complete. Now reorder suftab

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	0	2	4	5=abcb\$
1	1	0	0	1	1=atccabcb\$
2	1	0	2	8	6=bc\$b\$
3	1	0	0	7	8=b\$
4	1	0	4	5	0=catccabcb\$
5	0	0	0	0	4=cabcb\$
6	1	0	0	2	7=cb\$
7	1	0	0	6	3=ccabcb\$
8	1	0	1	3	2=tccabcb\$
*9	1	0	0	9	9=\$

First scan complete. Now reorder suftab

And Bh = B2h

i	Bh[i]	B2h[i]	count[i]	sufinv[i]	suftab[i]
0	1	0	2	4	5=abcb\$
1	1	0	0	1	1=atccabcb\$
2	1	0	2	8	6=bc\$b\$
3	1	0	0	7	8=b\$
4	1	0	4	5	0=catccabcb\$
5	0	0	0	0	4=cabcb\$
6	1	0	0	2	7=cb\$
7	1	0	0	6	3=ccabcb\$
8	1	0	1	3	2=tccabcb\$
*9	1	0	0	9	9=\$

Only one non-singleton bucket remaining