

Illustrate the execution of BUCKET-SORT on the following input S of key element pairs:

(2,a), (4,b), (6,c), (10,c), (5,a), (10,a), (2,a), (3,a), (2,b), (15,a), (7,a), (10,b), (8,a), (10,c)

Step 1: Construct B of size 16 (since largest element in S is 15)

B:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	0,a		2,a	3,a		5,a		7,a			10,a					15,a

↓  
2,b  
↓  
10,b  
↓  
10,c

Step 2: For each cell of B, empty each item into sorted list

(0,a), (2,a), (2,b), (3,a), (5,a), (7,a), (10,a), (10,b), (10,c), (15,a)