Danny Tan
Dt1462
CS2134
Hw10

1) O(n)
2) The hash function will only give even numbers as index. So it will use up a lot of space for the hash table.
3) A)
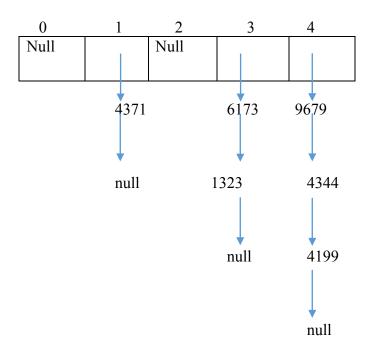
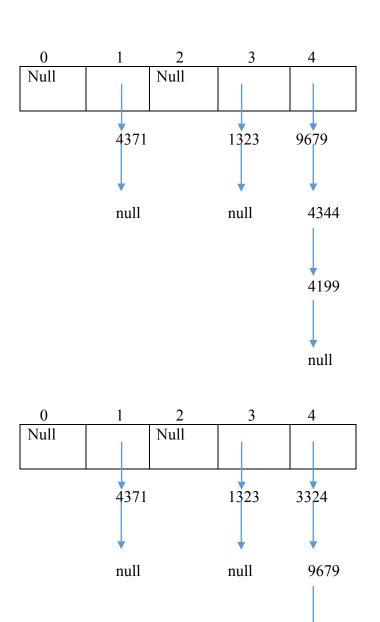| 0	1	2	3	4
Null	4371	Null	6173	null

0	1	2	3	4
Null	4371	Null	Formerly occupied	null

0	1	2	3	4
Null	4371	3327	26	null

0	1	2	3	4	5	6	7	8	9	10
Null	Null	Null	1323	4371	3327	26	4340	4199	null	9679

B)

0	1	2	3	4
Null		Null		

4371   6173   9679

null   1323   4344

null   4199

null

0	1	2	3	4
Null		Null		

4371   1323   9679

null   null   4344

4199

null

0	1	2	3	4
Null		Null		

4371   1323   3324

null   null   9679

4344

4199

null

0	1	2	3	4	5	6	7	8	9	10
Null	Null								null	

3324 → null

1323 → null

4371 → null

26 → null

4340 → null

4199 → null

9679 → 4344 → null

0	1	2	3	4	5	6	7	8	9	10
Null	Null								null	

3324 → null

1323 → null

4371 → null

26 → null

4340 → null

4199 → null

21 → 9679 → 4344 → null