El: Sobylnh
OS Ch 5

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Problems: 1, 2, 10, 13, 20, 27

5.1)

1)
0
1 [4371]
2 []
3 [1323, 6173]
4 [4344]
5 []
6 []
7 []
8 []
9 [4199, 9679, 1989]

2)
0 [9679]
1 [4371]
2 [1989]
3 [1323]
4 [6173]
5 [4344]
6 []
7 []
8 []
9 [4199]

3) 0 [9679]
1 [4371]
2 [ ]
3 [1323]
4 [6173]
5 [4344]
6 [ ]
7 [ ]
8 [1989]
9 [4199]

4) 0 [ ]
1 [4371]
2 [ ]
3 [1323]
4 [6173]
5 [9679]
6 [ ]
7 [4344]
8 [ ]
9 [4199]

5.2) 1)

0 [4199]	10
1 [4371]	11
2	12 [1323, 4344]
3	13
4	14
5	15
6	16
7	17 [6173]
8 [9679]	18
9	19

2)

0	[41199]	10	
1	[4371]	11	
2		12	[1323]
3		13	[4344]
4		14	
5		15	
6		16	
7		17	[6173]
8	[9679]	18	
9		19	

5.8)
- Seperate chaining requires locks which use memory and overhead
- linear probing eliminates the need for locks but can result in clusterings or secondary collisions
- exponential probing can be difficult to implement

5.27)

000 [00000000, 00001011, 00101011]	100 [10010110, 10011011, 10011110]
001	101 [10111101, 10111110]
010 [01010001, 01100001]	110
011 [01101111, 01111111]	111 [11001111, 11011011, 11100000]