Nathan Tipton Assignment 8

1. 0, 1→2→5

1, 0→2→4→5

2, 0→1→3

3, 2→4→7

4, 1→3→ 5→6

5, 0→1→4

6, 4→7

7, 3→6



0, 1→2

1, 3

2, 1

3, 2→6

4, 1→3→5→7

5, 6

6

7, 5

1. Breadth First Search
2. 0, 1,2,5,4,3,6,7 BFS traversal order
3. BFS Tree, shortest path
4. a. 0 : d[i]=1 , f[i]=10

1: d[i]= 2 , f[i]=9

2: d[i]=4 , f[i]=5

3: d[i]= 3 , f[i]=8

4: d[i]= 11 , f[i]=16

5: d[i]=12 , f[i]=13

6: d[i]= 6 , f[i]=7

7: d[i]= 14 , f[i]=15

1. 0,1,3,2,6,4,5,7