BFS Observations

Obs. 1: BFS can be used to count components.

Obs. 2: BFS can be used to detect cycles.

Obs. 3: In BFS, **d** provides the shortest distance to every vertex.

Obs. 4: In BFS, the endpoints of a cross edge never differ in distance, **d**, by more than 1: $|d(u) - d(v)| \le 1$