Data Structure Assignment 6

Paper Homework

1. Show that given that $|V(G)| = n$, a spanning tree has $n-1$ edges.
2. Show that no edge can be in two or more biconnected components of a graph.
3. Modify the table of figure6.21. (Textbook p.288 Figure6.21)

Vertex	0	1	2	3	4	5	6	7	8	9
dfn	4	3	2	0	1	5	6	7	9	8
low	4	3	0	0	0	5	5	7	9	8

Figure 6.21: *dfn* and *low* values for *dfs* spanning tree with *root* = 3

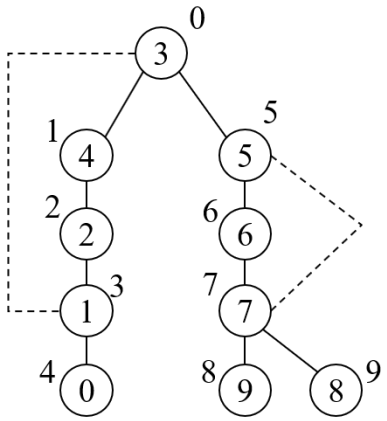

Figure 6.20(b)

General Information

- Deadline : 2018/12/12 (Please submit to TA after class)
- Notice：You won't get any point if you only write the answer, please list your process and reason.
- Late homework will not be accepted.
- Please write on A4 papers, if there is more than one page, staple them together, and write your student id & name on each page.
- Any copies will be scored as zero. Do not plagiarize.