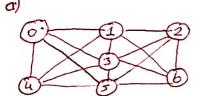
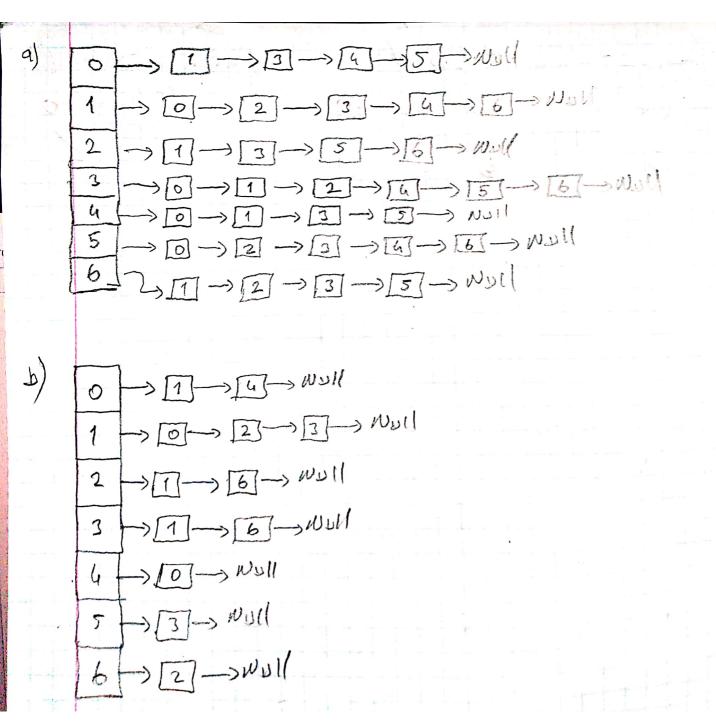


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+ Adjacency List =>
a) $0 \rightarrow \{1,3,5,4\}$ $1 \rightarrow \{0,4,3,6,2\}$ $2 \rightarrow \{1,3,5,6\}$ $3 \rightarrow \{0,1,2,6,5,4\}$ $4 \rightarrow \{0,1,3,5\}$ $5 \rightarrow \{0,4,3,2,6\}$ $5 \rightarrow \{0,4,3,2,6\}$



+ Adjacency Matrix

| 0123456

| 0101110

1101111

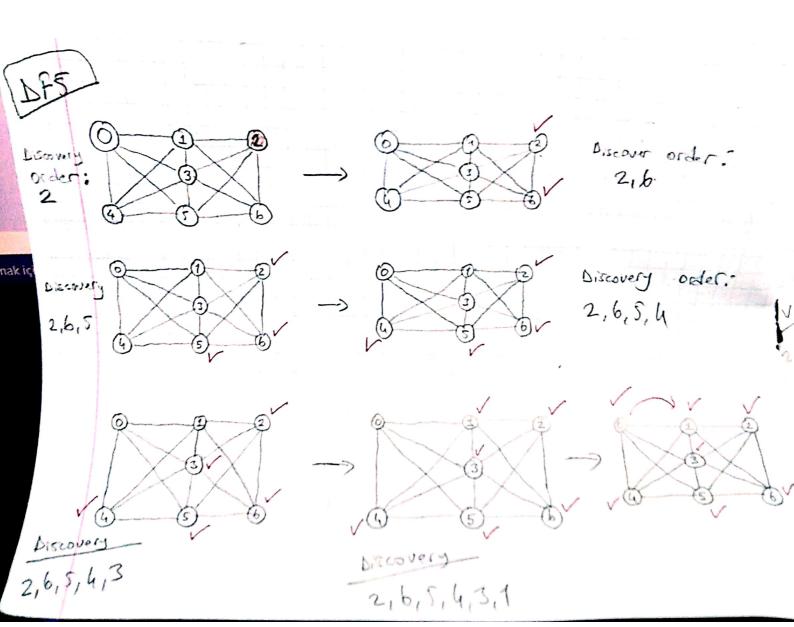
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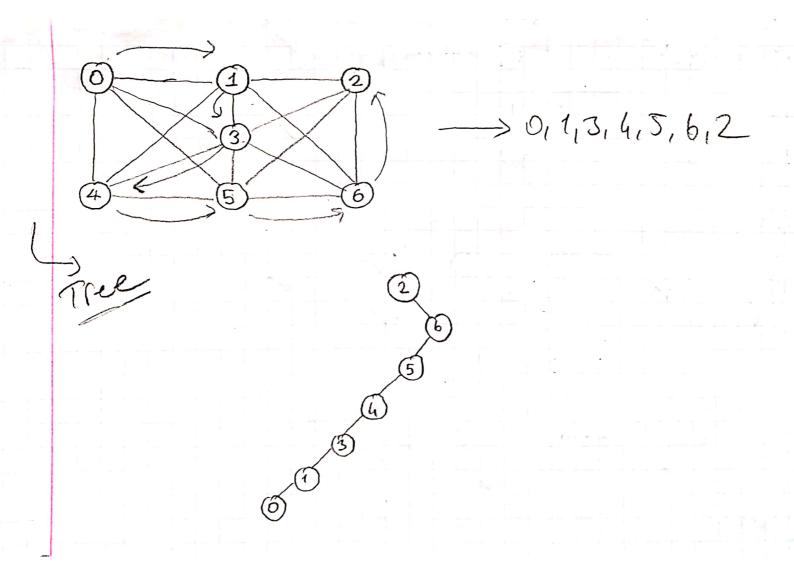
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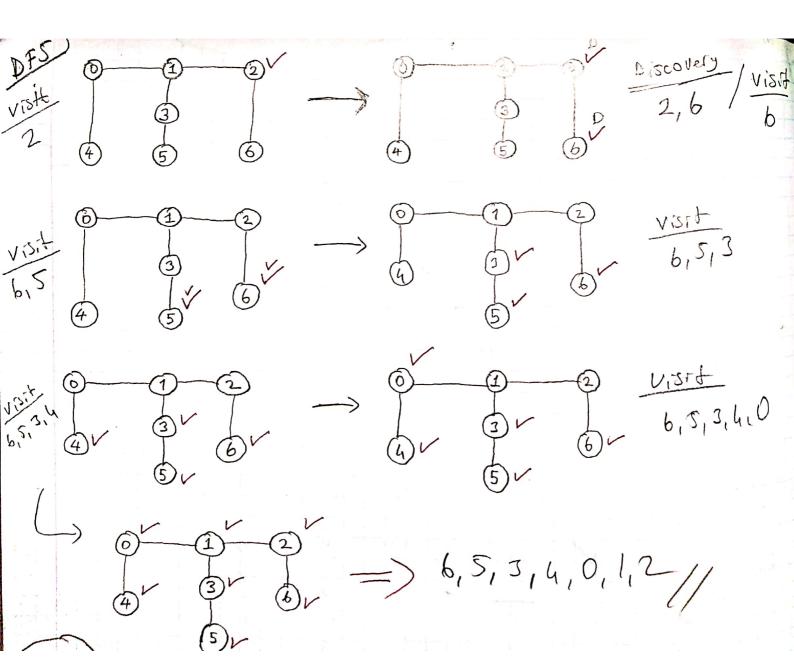
510111010

 Note for undirected graphs the graph density is; $D = |E|/|V|^2$ $+ |V_a| = 7$ $|E_a| = 16$ $D_a = \frac{16}{7^2} = \frac{16}{43} = \frac{0.32}{2}$ $D_b = \frac{6}{7^2} = \frac{6}{43} = \frac{0.122}{2}$ The maximum number of edges for undirected graph in (2), so the maximal density in 0.

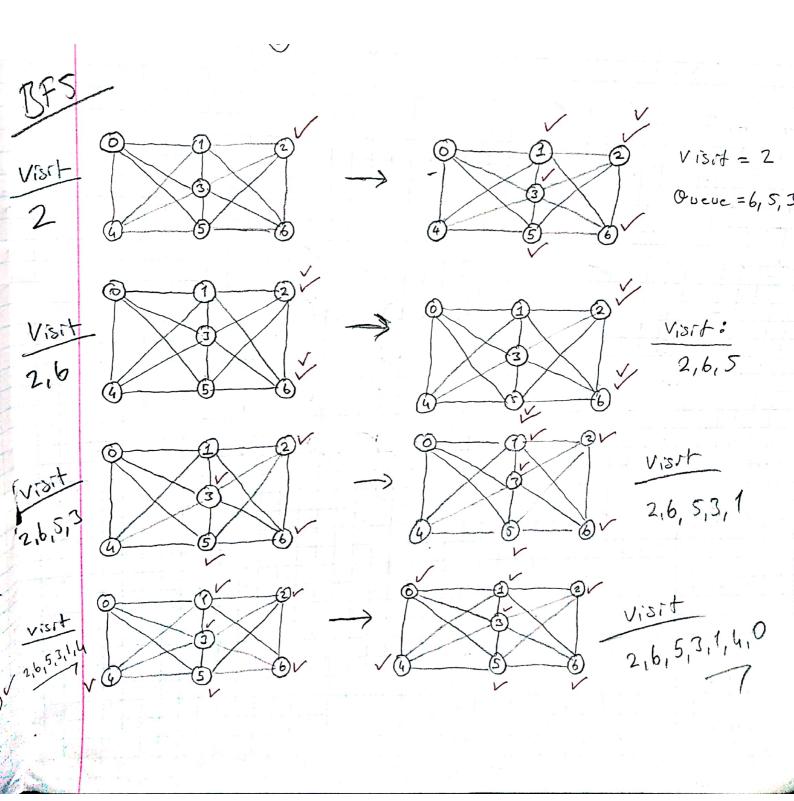
(first Graphs)







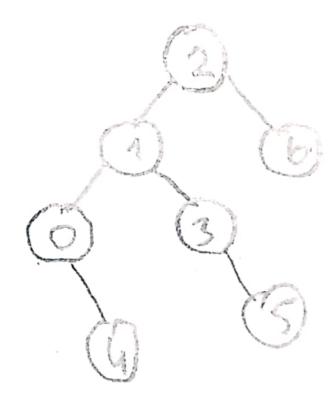
(2,6,1,3,5,0,4)



855 606 606

(2,6,5,3,1,4,0)

8F5 Q2



(2,6,1,3,0,5,4)