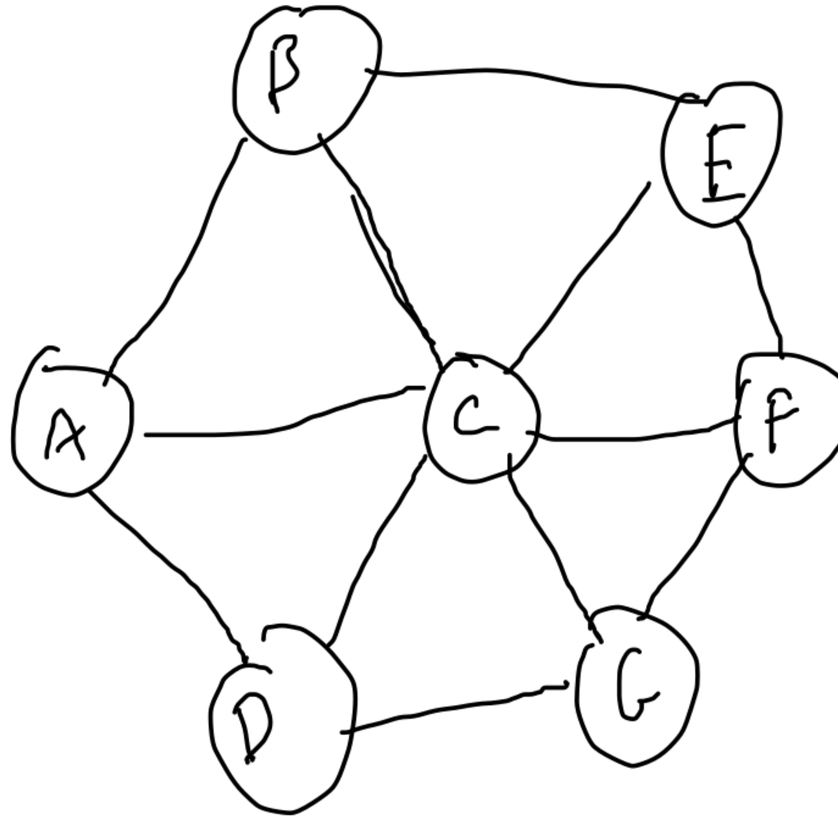
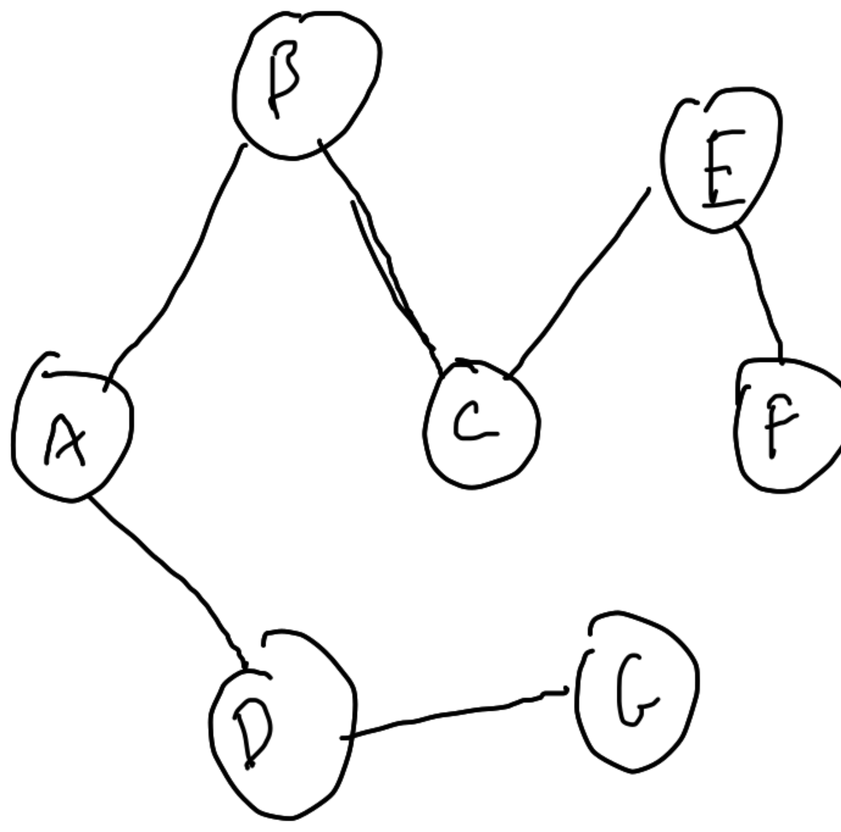
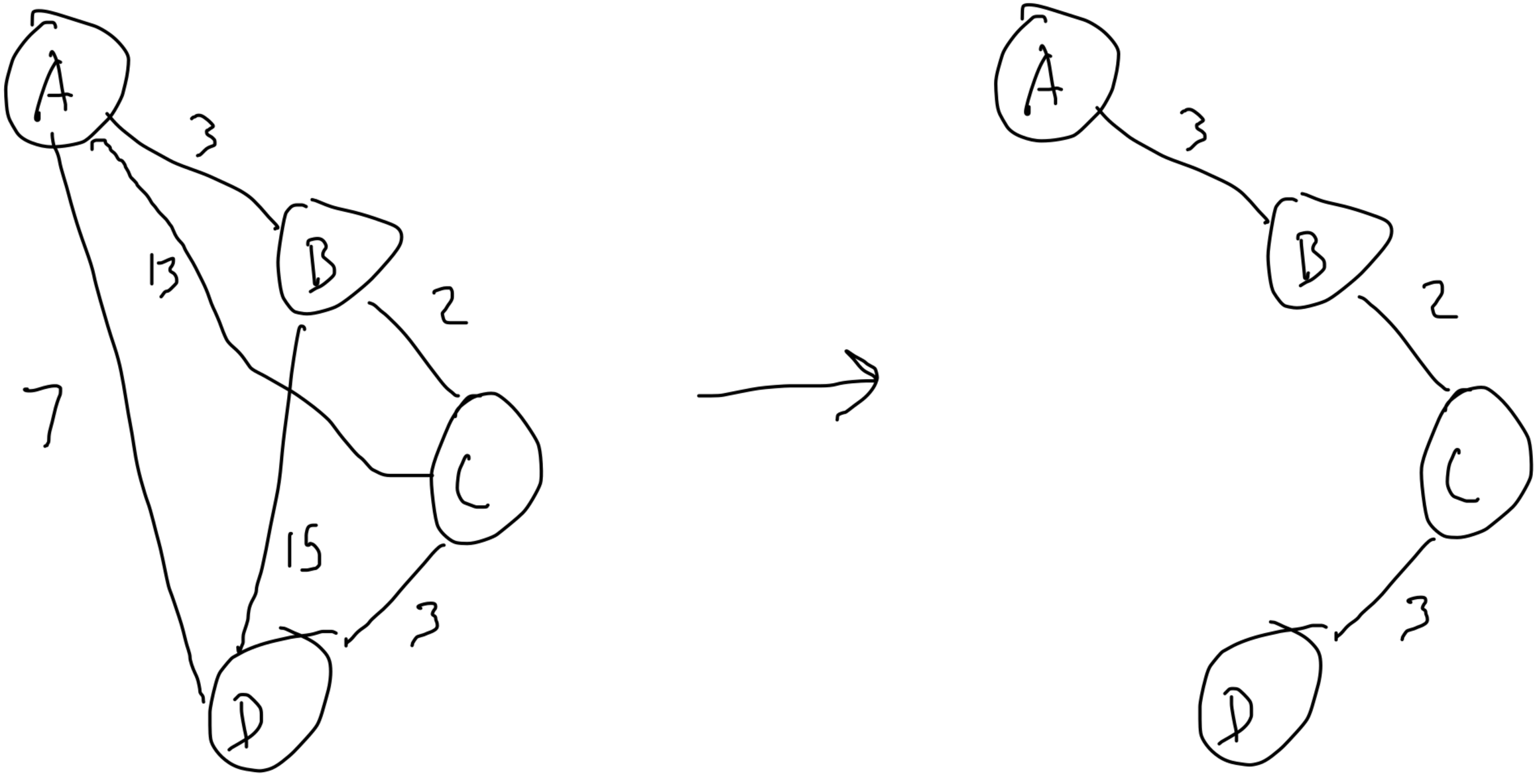
Spanning Tree

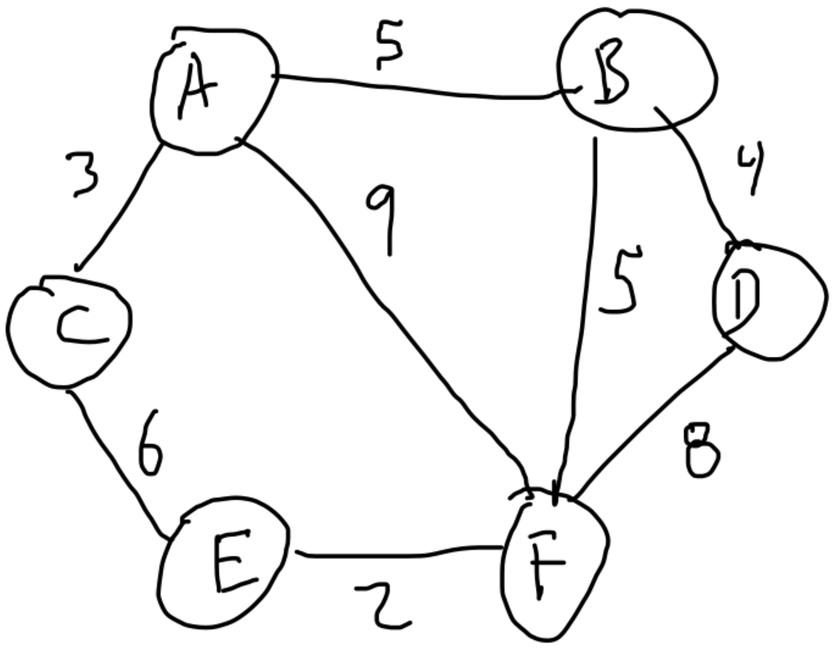




Minimum Spanning Tree



Prim's Algorithm



inTree: ✓ ✓ ✓ ✓ ✓ ✓

A B C D E F

used edges:

C → A, 3

A → B, 5

B → D, 4

B → F, 5

F → E, 2

queue:

~~C → A, 3~~

~~A → B, 5~~

~~B → D, 4~~

~~B → F, 5~~

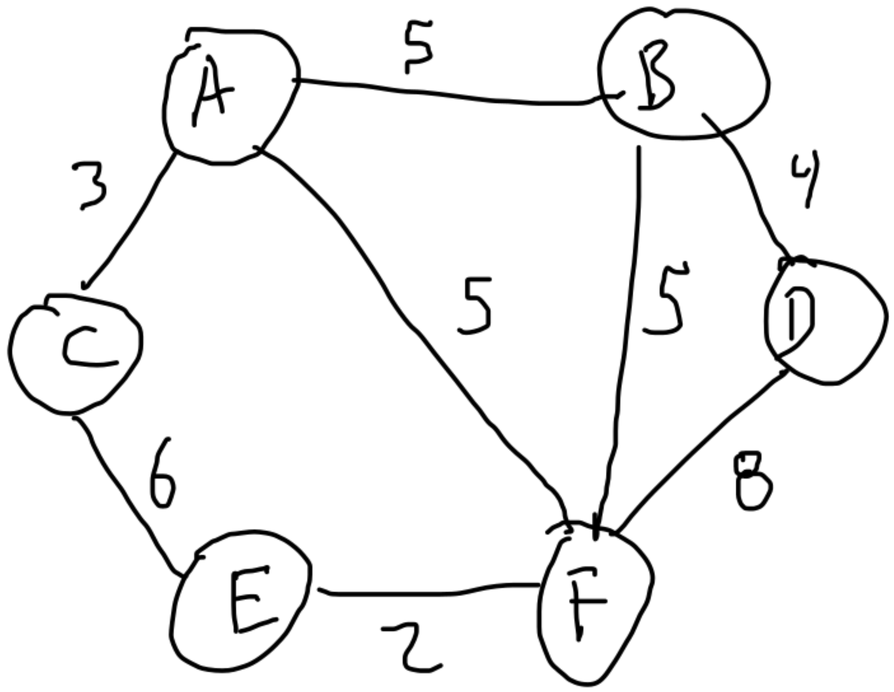
~~F → E, 2~~

C → E, 6

D → F, 8

A → F, 9

Kruskal's Algorithm



treeNum | 1 2 3 4 5 6 |

A	B	C	D	E	F
1	1	2	1	2	1

used edges: E→F, 2

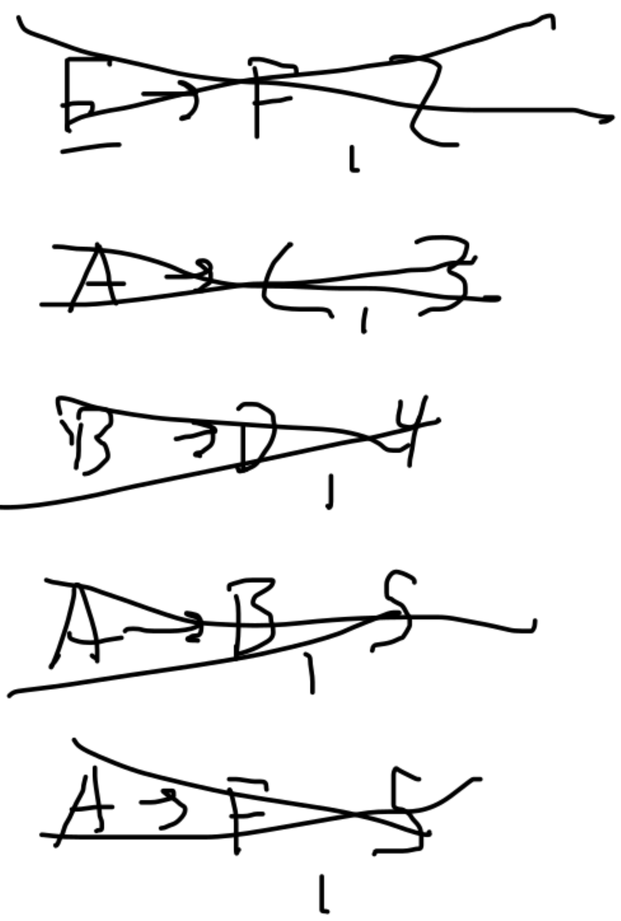
A→C, 3

B→D, 4

A→B, 5

A→F, 5

edges:



B→F, 5

C→E, 6

F→D, 8