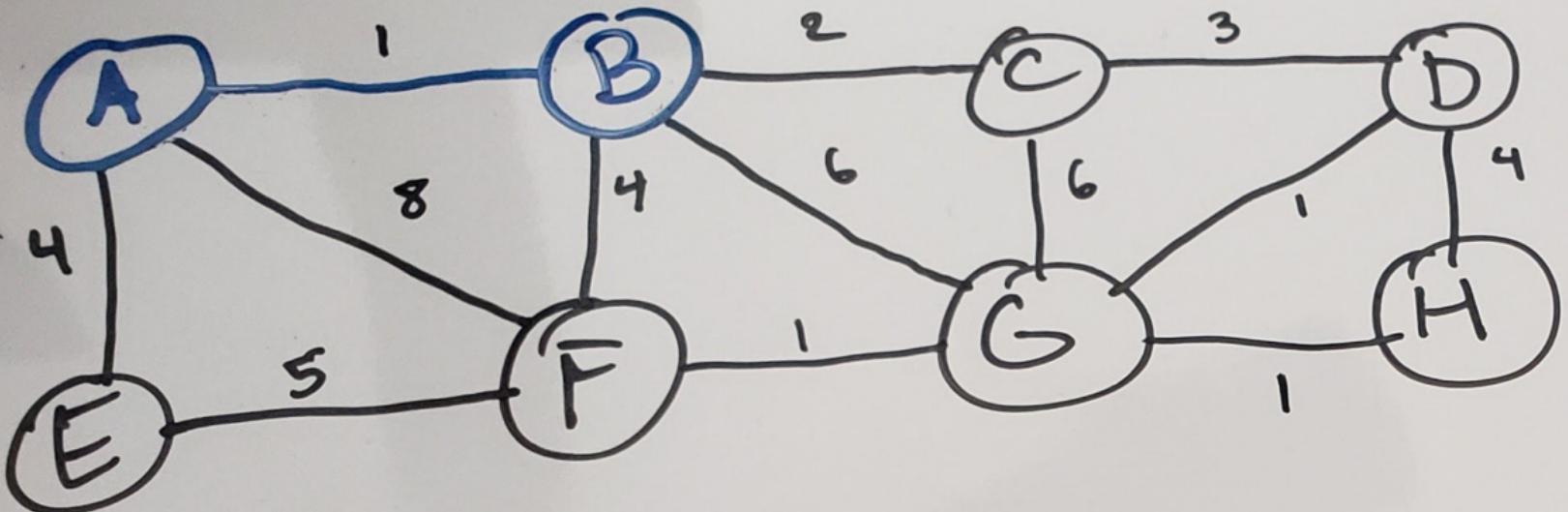


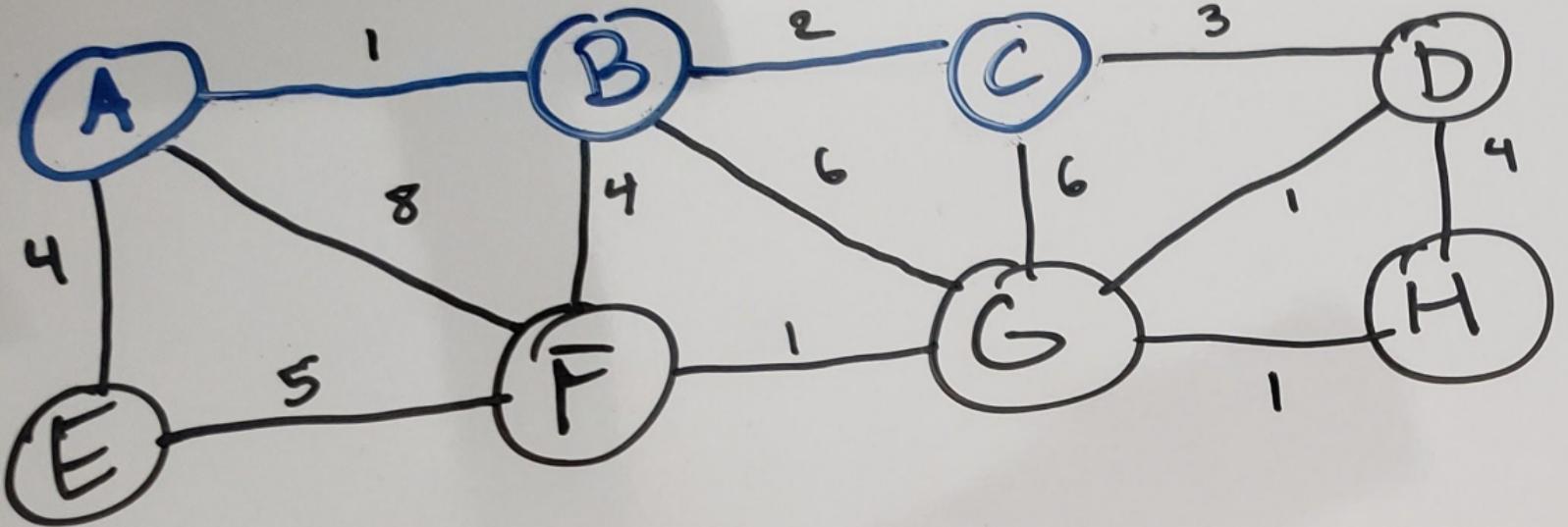
Prim's (Eager)

V	edgeTo[]	distTo[]
→ A		
→ B	A-B	1
→ E	A-E	4
→ F	A-F	5
		8



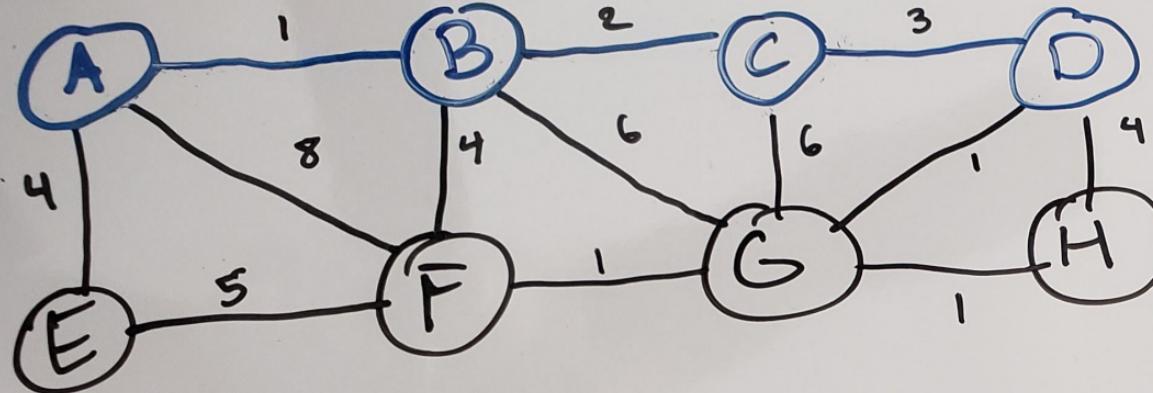
Prim's (Eager)

V	edgeTo[]	distTo[]
A	-	-
B	A-B	1
C	B-C	2
E	A-E	4
F	B-F	4
G	B-G	6



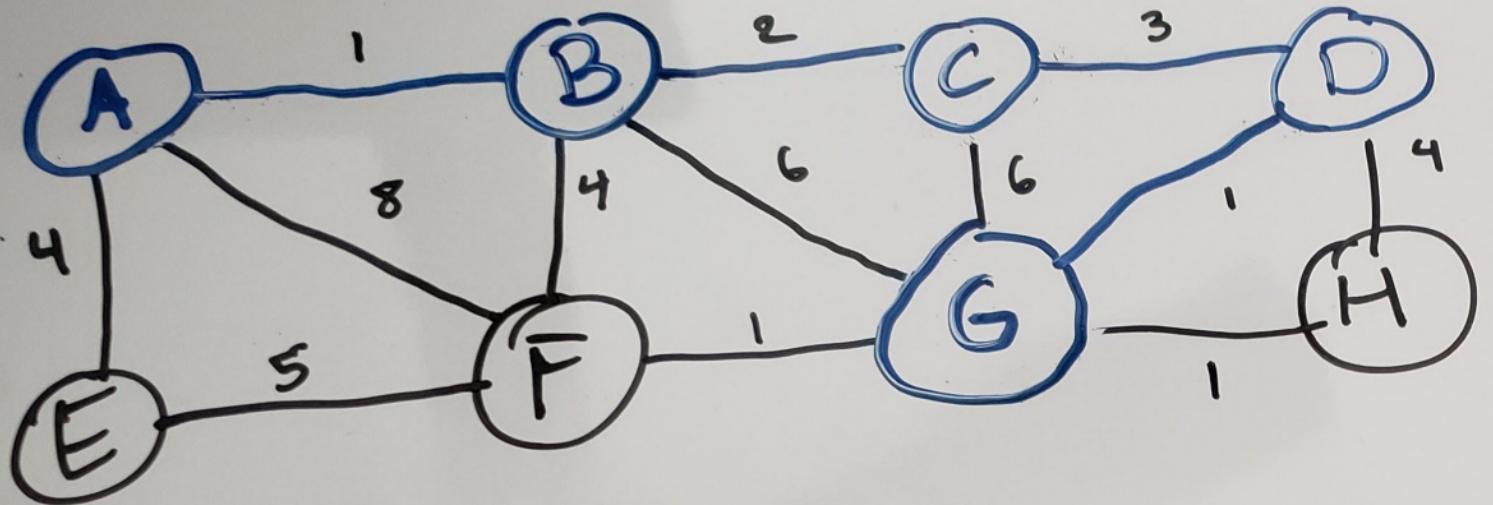
Prim's (Eager)

V	edgeTo[]	distTo[]
A	-	-
B	A-B	1
C	B-C	2
D	-	-
E	C-D	3
F	A-E	4
G	B-F	4
H	B-G	6



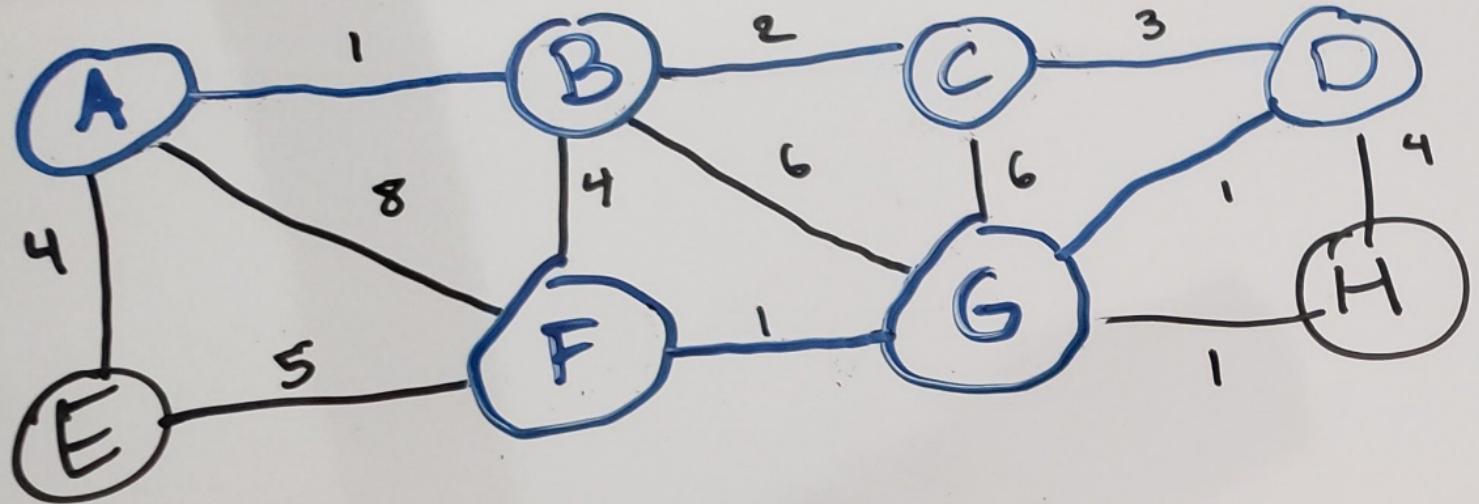
Prim's (Eager)

V	edgeTo[]	distTo[]
A	-	-
B	A-B	1
C	B-C	2
D	C-D	3
G	D-G	-
E	A-E	4
F	B-F	4
H	D-H	4



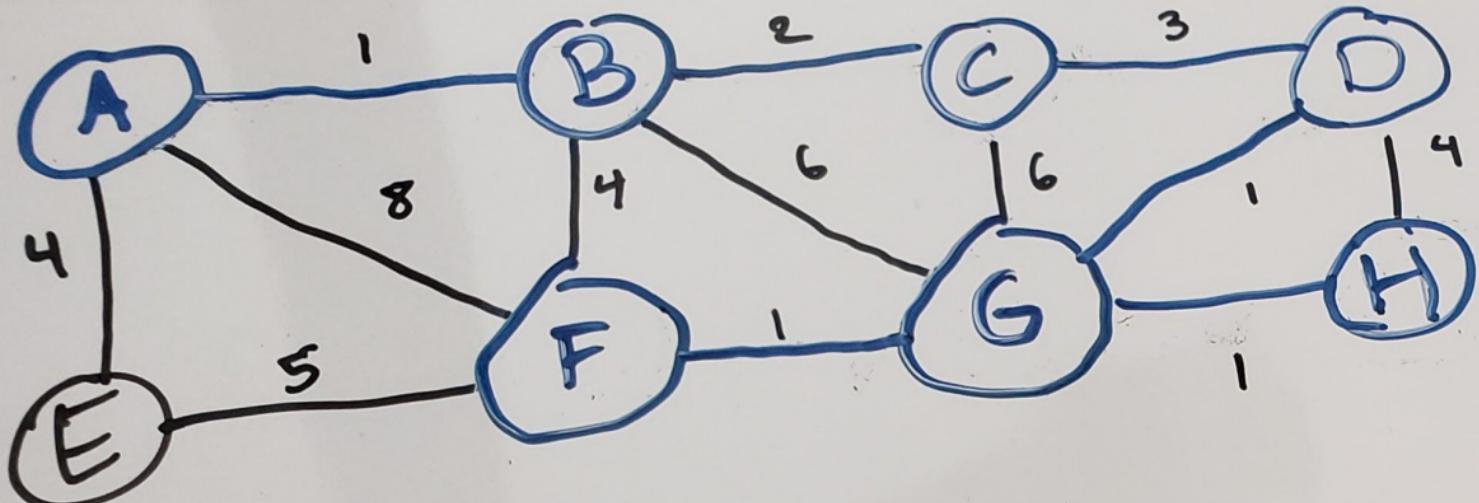
Prim's (Eager)

V	edgeTo[]	distTo[]
A	-	-
B	A-B	1
C	B-C	2
D	C-D	3
G	D-G	1
F	G-F	1
H	G-H	1
E	A-E	4



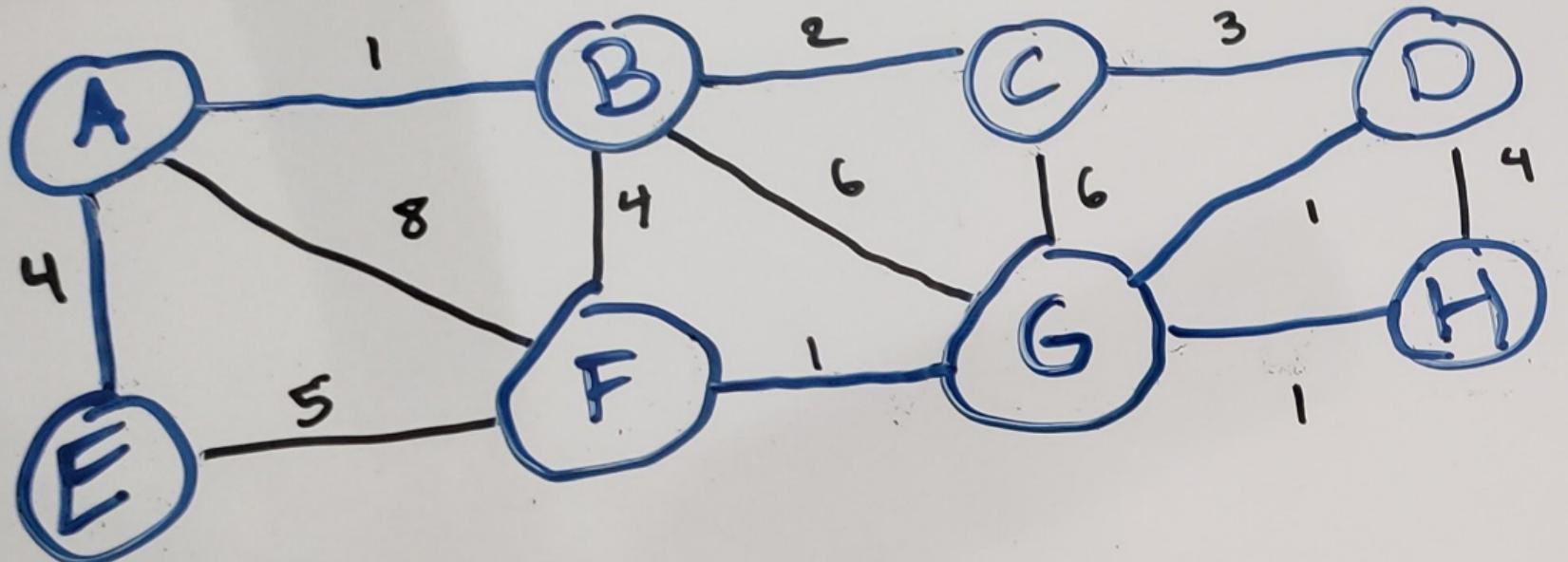
Prim's (Eager)

V	edgeTo[]	distTo[]
A	-	-
B	A-B	2
C	B-C	3
D	C-D	1
G	D-G	-
F	G-F	-
H	G-H	1
E	A-E	4



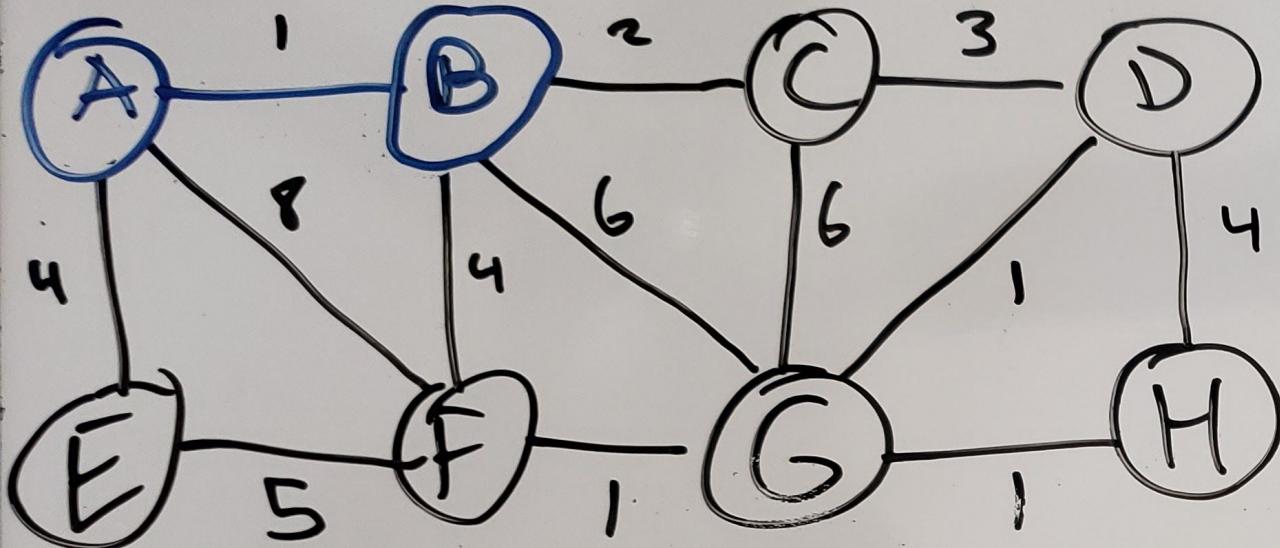
Prim's (Eager)

V	edgeTo[]	distTo[]
A	-	-
B	A-B	1
C	B-C	2
D	C-D	3
G	D-G	1
F	G-F	-
→ H	G-H	-
E	A-E	4



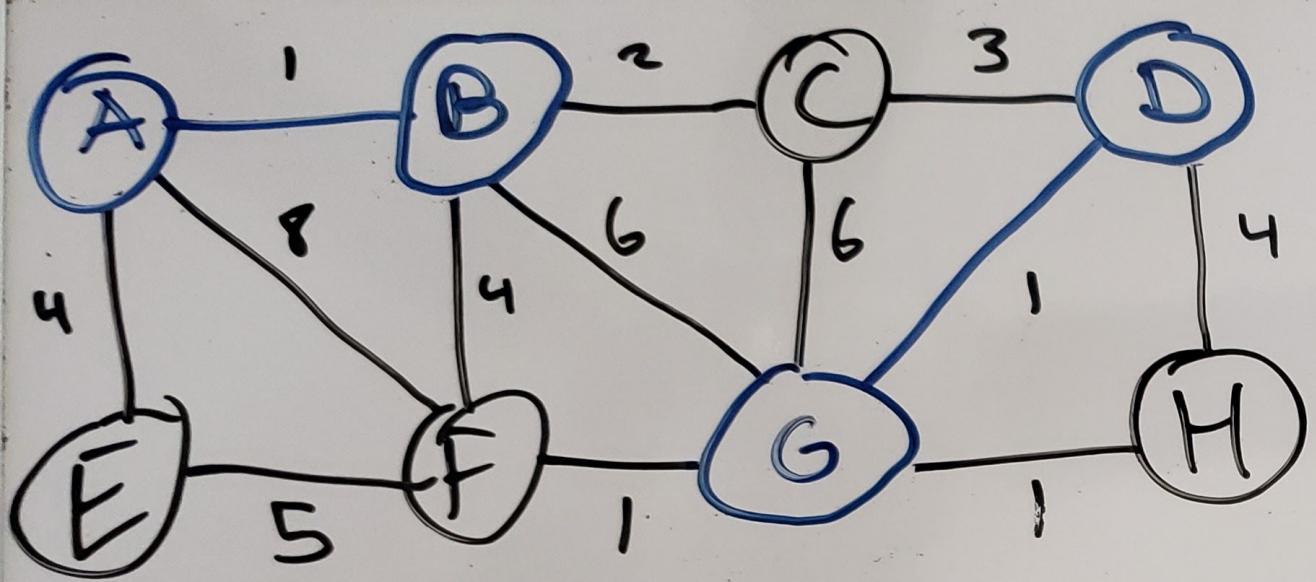
Prim's (Eager)

V	edgeTo[]	distTo[]
A	-	-
B	A-B	1
C	B-C	2
D	C-D	3
G	D-G	-
F	G-F	-
H	G-H	-
→ E	A-E	4



Kruskal's

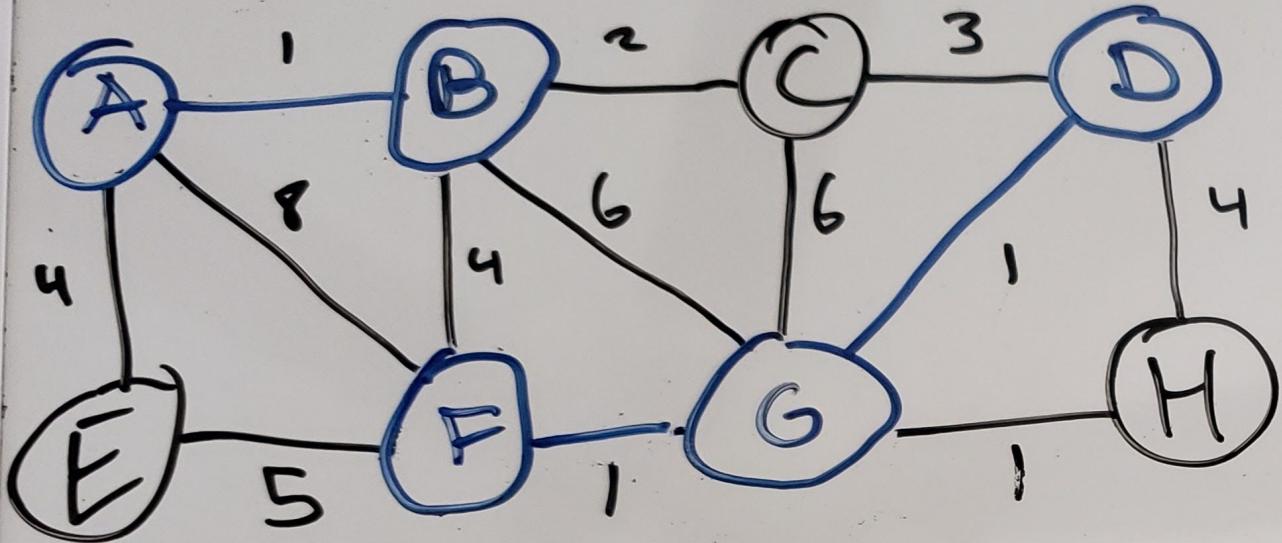
Edges Sorted By Weight	
→ A-B	1
D-G	1
F-G	1
G-H	1
B-C	2
C-D	3
A-E	3
B-F	4
D-H	4
E-F	5
B-G	6
C-G	6
A-F	8



Kruskal's

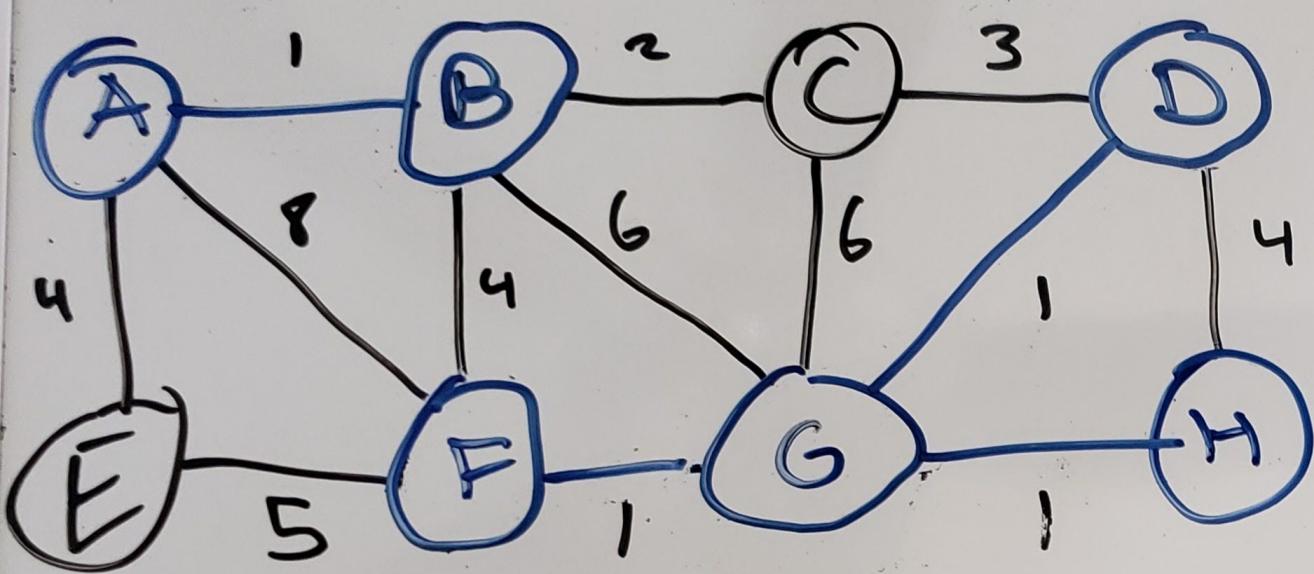
Edges Sorted By Weight

A - B	1
→ D - G	1
F - G	1
G - H	1
B - C	2
C - D	2
A - E	3
B - F	3
D - H	3
E - F	4
B - G	5
C - G	6
A - F	8



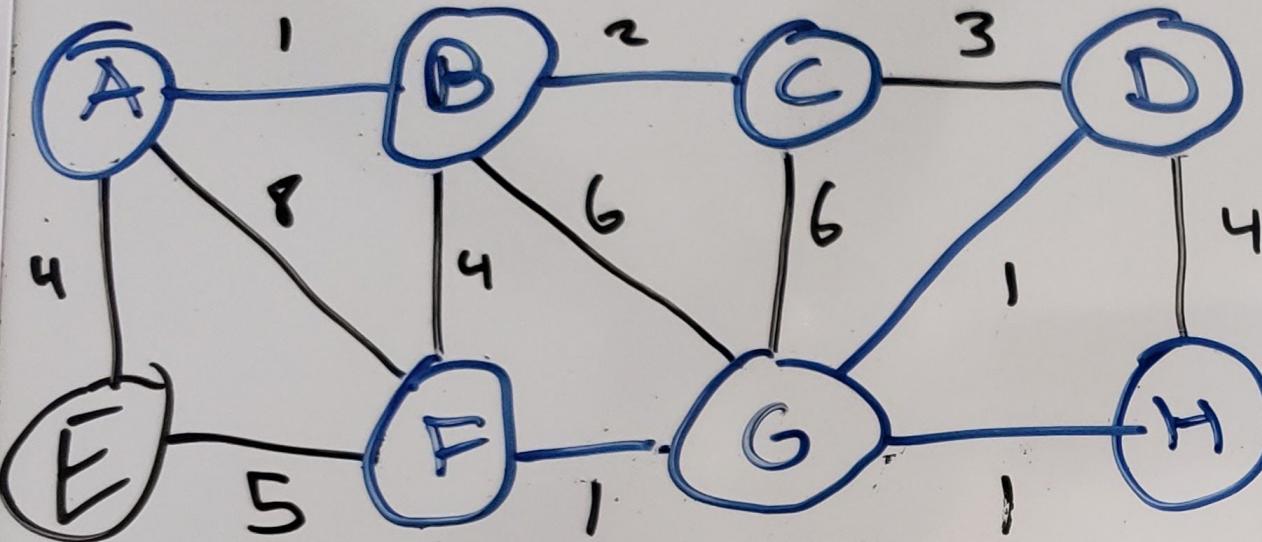
Kruskal's

Edges Sorted By Weight	
A-B	1
D-G	1
→F-G	1
G-H	2
B-C	2
C-D	3
A-E	3
B-F	4
D-H	4
E-F	5
B-G	5
C-G	6
A-F	8



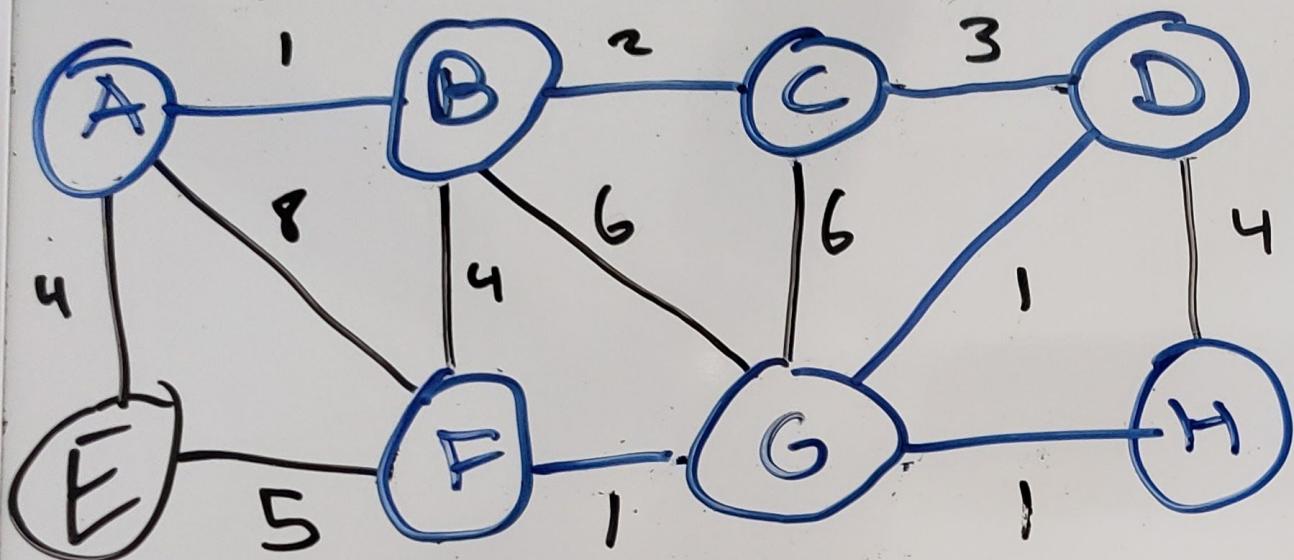
Kruskal's

Edges Sorted By Weight	
A - B	1
D - G	1
F - G	1
D - H	1
B - C	2
C - D	3
A - E	4
B - F	4
D - H	4
E - F	5
B - G	6
C - G	6
A - F	8



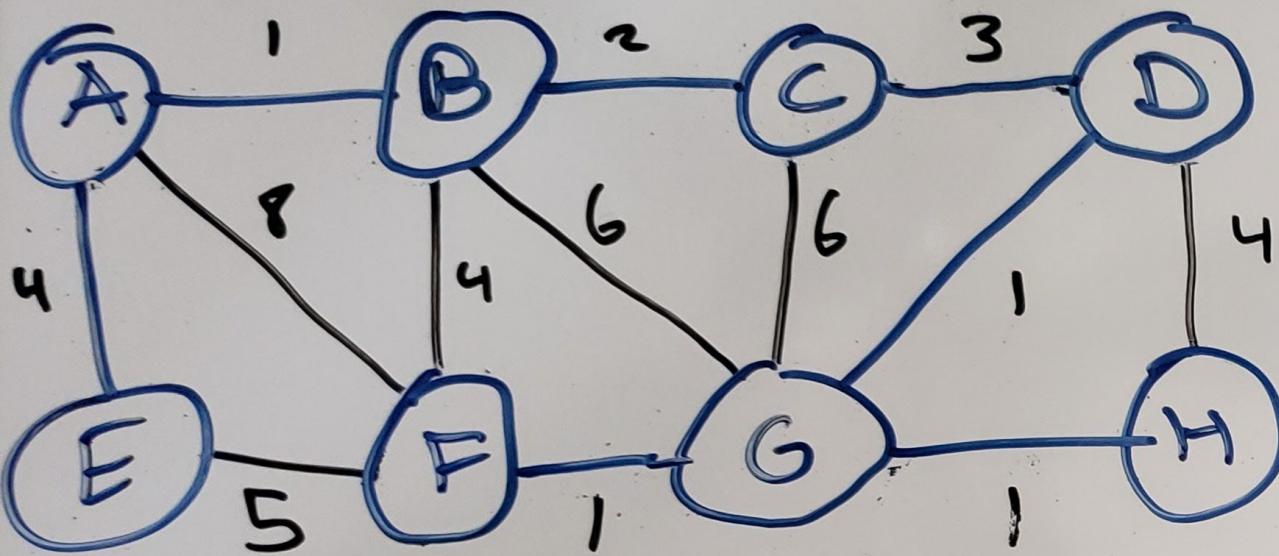
Kruskals

Edges Sorted By Weight	
A-B	1
D-G	1
F-G	1
G-H	1
B-C	2
C-D	3
A-E	4
B-F	4
D-H	4
E-F	5
B-G	6
C-G	6
A-F	8



Kruskals

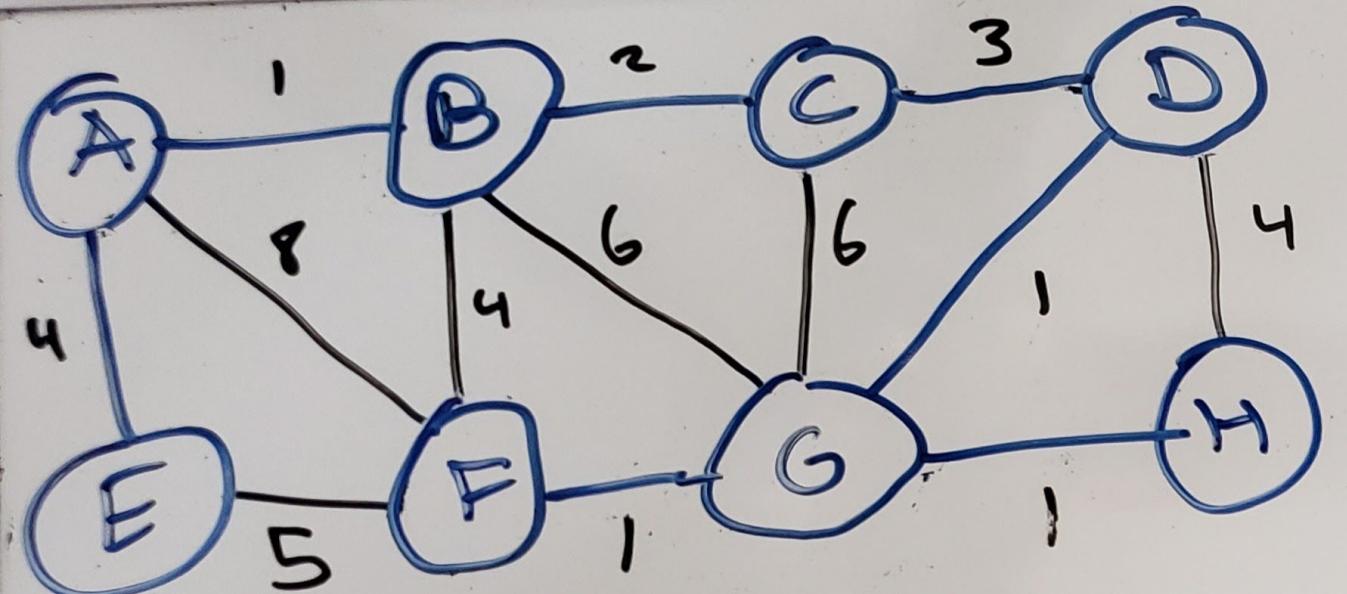
Edges Sorted By weight	
A-B	1
D-G	1
F-G	1
G-H	1
B-C	2
C-D	3
A-E	4
B-F	4
D-H	4
E-F	5
B-G	5
C-G	6
A-F	8



Kruskals

Edges Sorted By Weight

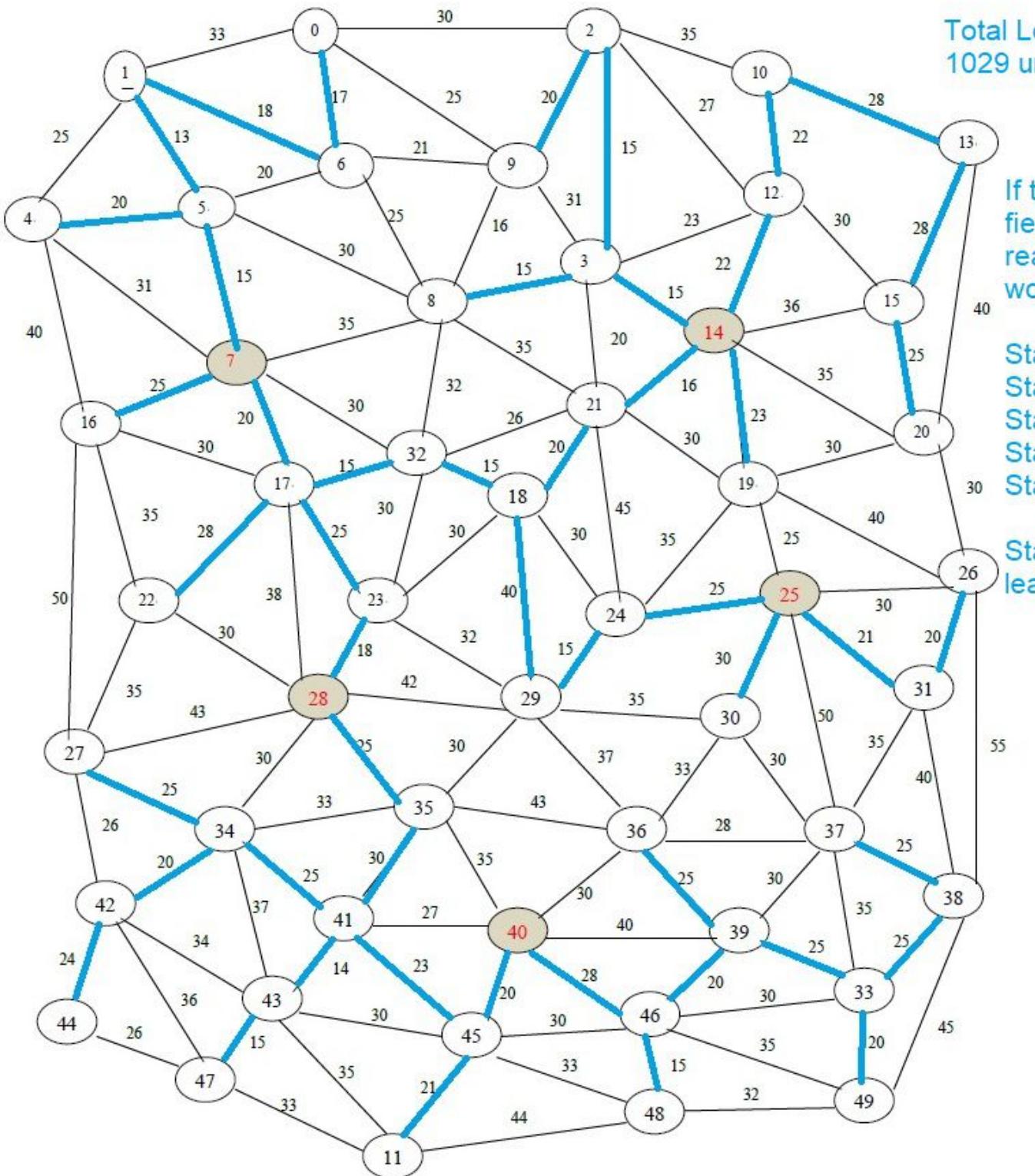
A - B	1
D - G	1
F - G	1
G - H	1
B - C	2
C - D	3
A - E	3
B - F	4
D - H	4
E - F	5
B - G	6
C - G	6
A - F	8



Kruskal's

all vertices
connected,
ignore rest of
edges

Edges Sorted By Weight	
A-B	1
D-G	1
F-G	1
G-H	1
B-C	2
C-D	2
A-E	3
B-F	3
D-H	4
E-F	4
B-G	5
C-G	6
B-F	6
A-F	8



Total Length of Cable Used:
1029 units

If there was only one field station, the cable to reach all other nodes would take:

Station 7: 994 units
 Station 14: 973 units
 Station 25: 981 units
 Station 28: 983 units
 Station 40: 988 units

Station 14 takes the least amount of cable