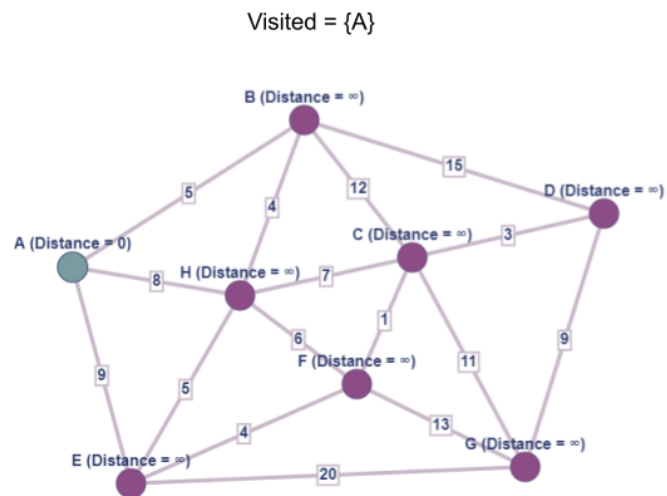
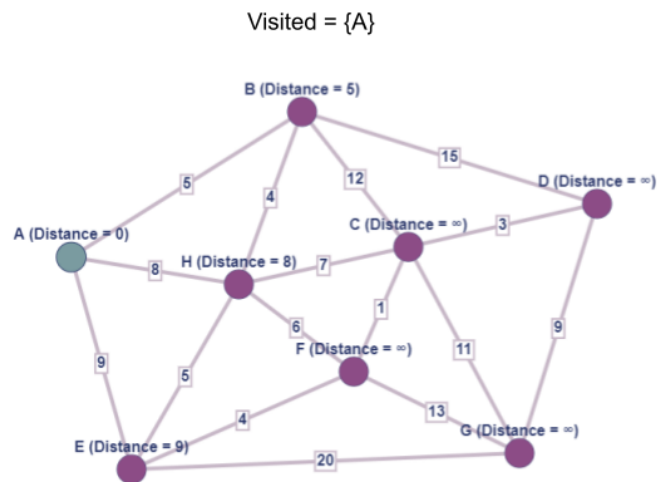


Assignment 2: Part 2: Dijkstra's Algorithm:

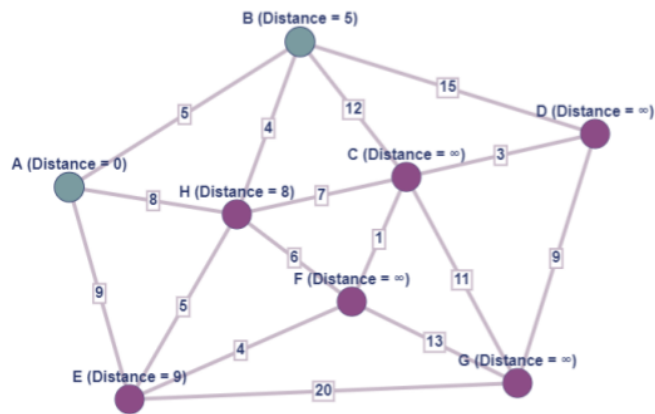


Node	Best Path
A	{A}
B	{ }
C	{ }
D	{ }
E	{ }
F	{ }
G	{ }
H	{ }



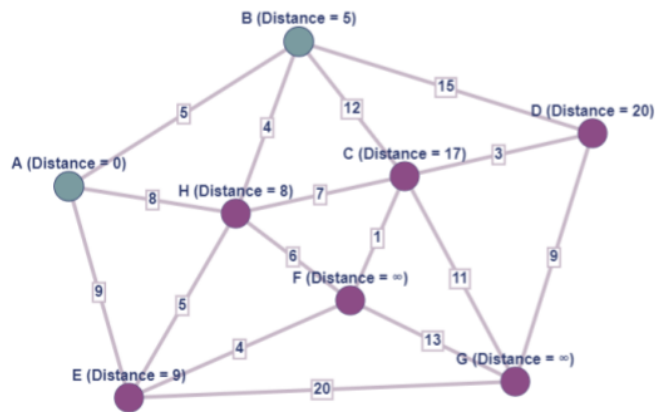
Node	Best Path
A	{A}
B	{A -> B}
C	{ }
D	{ }
E	{A -> E}
F	{ }
G	{ }
H	{A -> H}

Visited = {A, B}



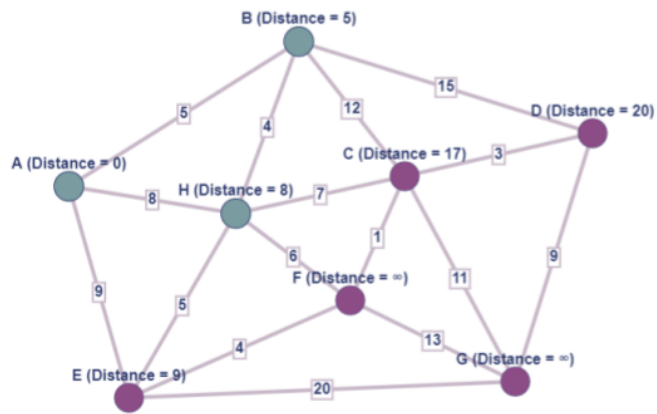
Node	Best Path
A	{A}
B	{A -> B}
C	{}
D	{}
E	{A -> E}
F	{}
G	{}
H	{A -> H}

Visited = {A, B}



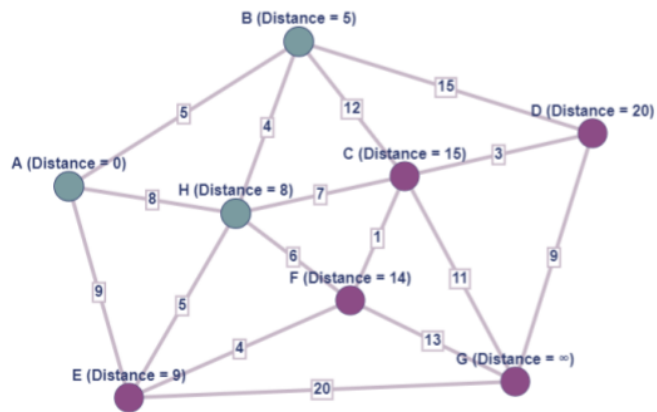
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> B -> C}
D	{A -> B -> D}
E	{A -> E}
F	{}
G	{}
H	{A -> H}

Visited = {A, B, H}



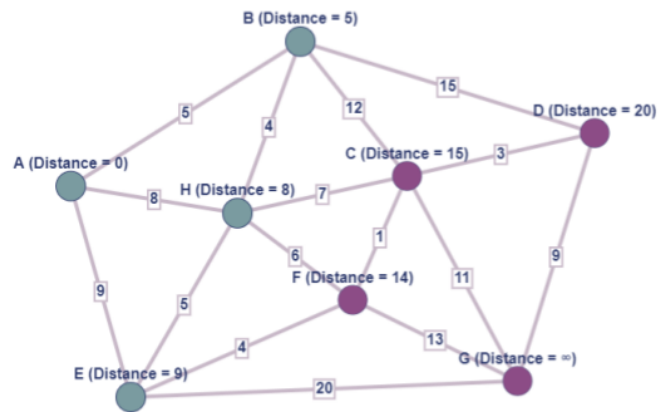
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> B -> C}
D	{A -> B -> D}
E	{A -> E}
F	{}
G	{}
H	{A -> H}

Visited = {A, B, H}



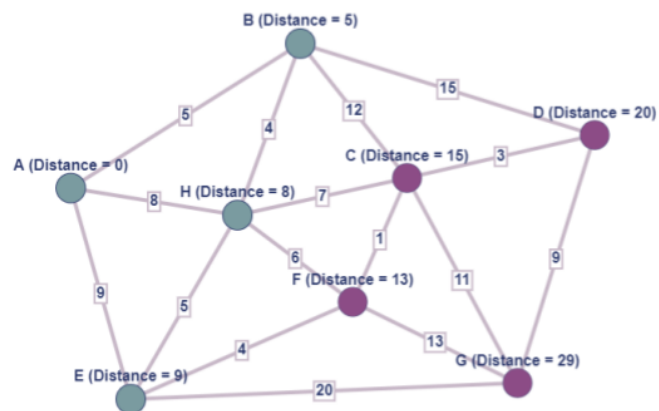
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> H -> C}
D	{A -> B -> D}
E	{A -> E}
F	{A -> H -> F}
G	{}
H	{A -> H}

Visited = {A, B, H, E}



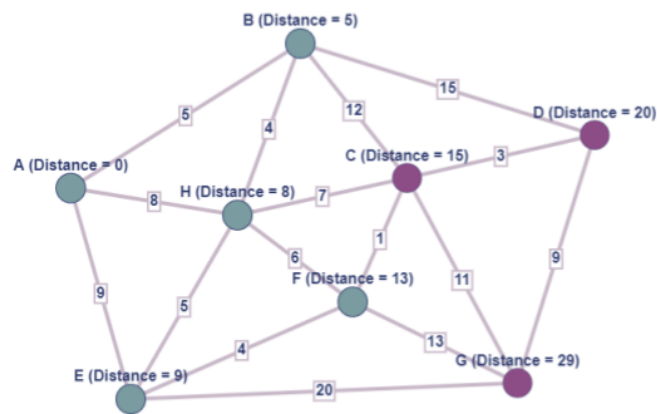
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> H -> C}
D	{A -> B -> D}
E	{A -> E}
F	{A -> H -> F}
G	{ }
H	{A -> H}

Visited = {A, B, H, E}



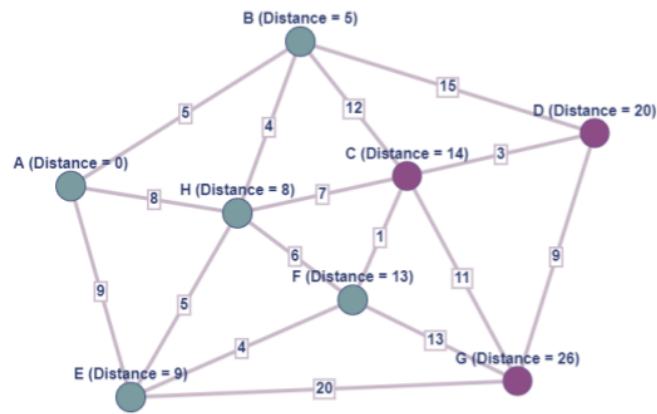
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> H -> C}
D	{A -> B -> D}
E	{A -> E}
F	{A -> E -> F}
G	{A -> E -> G}
H	{A -> H}

Visited = {A, B, H, E, F}



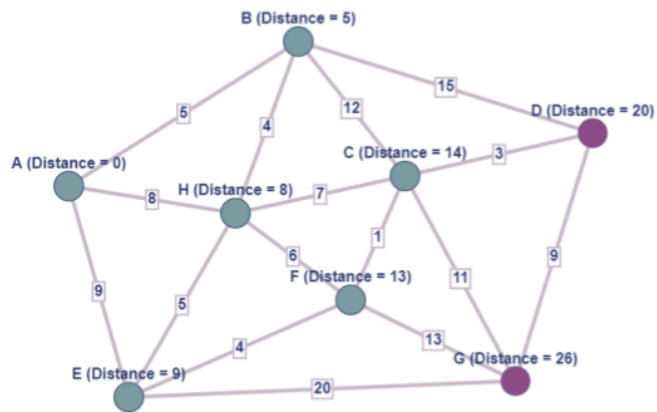
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> H -> C}
D	{A -> B -> D}
E	{A -> E}
F	{A -> E -> F}
G	{A -> E -> G}
H	{A -> H}

Visited = {A, B, H, E, F}



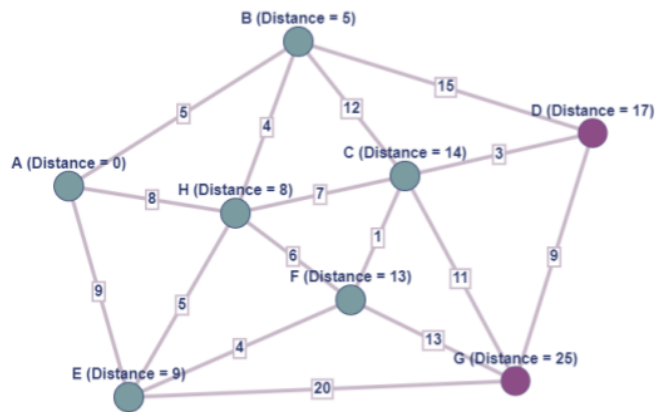
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> E -> F -> C}
D	{A -> B -> D}
E	{A -> E}
F	{A -> E -> F}
G	{A -> E -> F -> G}
H	{A -> H}

Visited = {A, B, H, E, F, C}



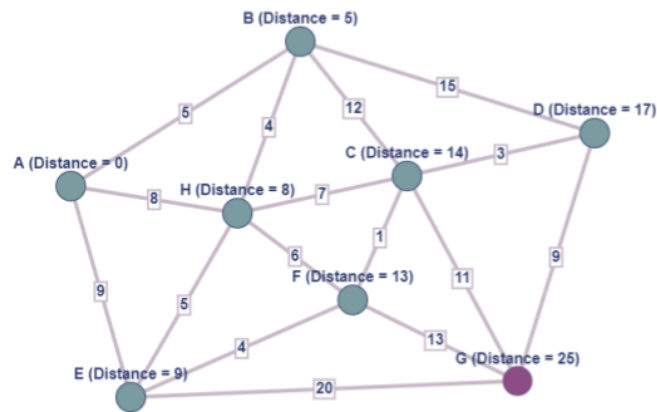
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> E -> F -> C}
D	{A -> B -> D}
E	{A -> E}
F	{A -> E -> F}
G	{A -> E -> F -> G}
H	{A -> H}

Visited = {A, B, H, E, F, C}



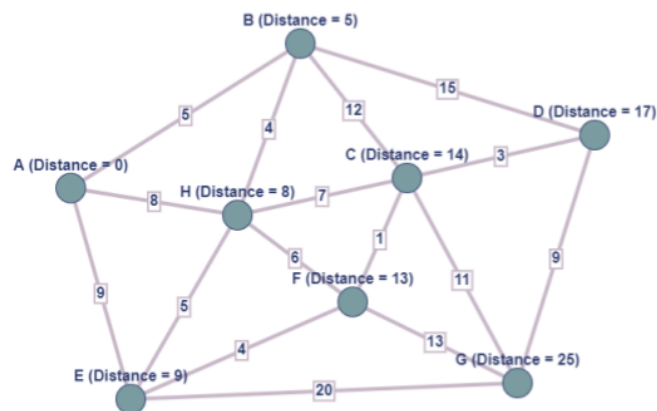
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> E -> F -> C}
D	{A -> E -> F -> C -> D}
E	{A -> E}
F	{A -> E -> F}
G	{A -> E -> F -> C -> G}
H	{A -> H}

Visited = {A, B, H, E, F, C, D}



Node	Best Path
A	{A}
B	{A -> B}
C	{A -> E -> F -> C}
D	{A -> E -> F -> C -> D}
E	{A -> E}
F	{A -> E -> F}
G	{A -> E -> F -> C -> G}
H	{A -> H}

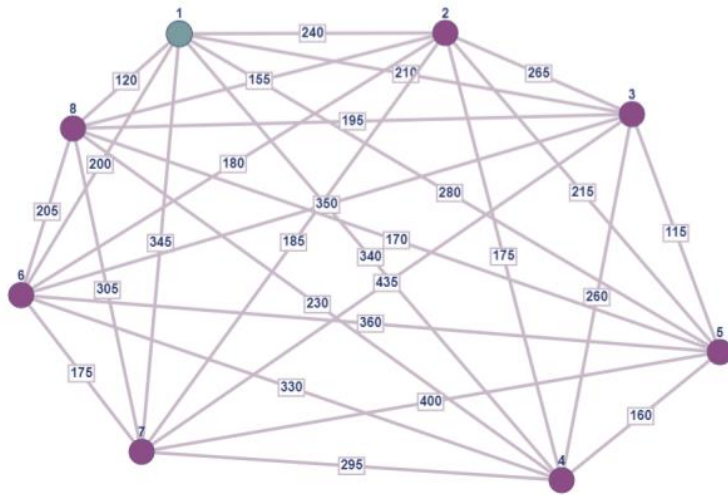
Visited = {A, B, H, E, F, C, D, G}



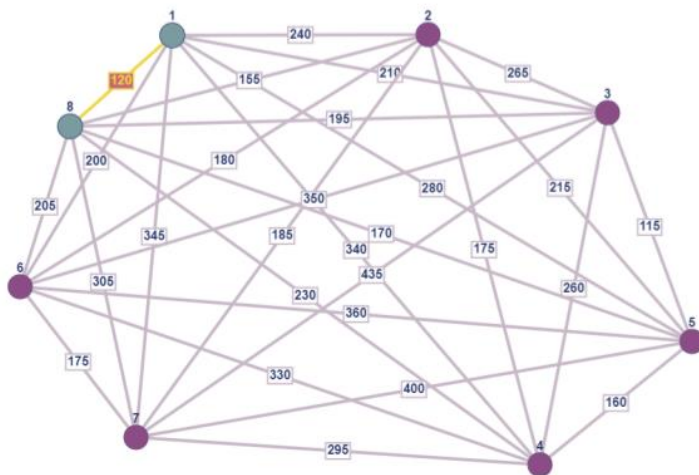
Node	Best Path
A	{A}
B	{A -> B}
C	{A -> E -> F -> C}
D	{A -> E -> F -> C -> D}
E	{A -> E}
F	{A -> E -> F}
G	{A -> E -> F -> C -> G}
H	{A -> H}

Assignment 2: Part 3: Minimum Spanning Tree:

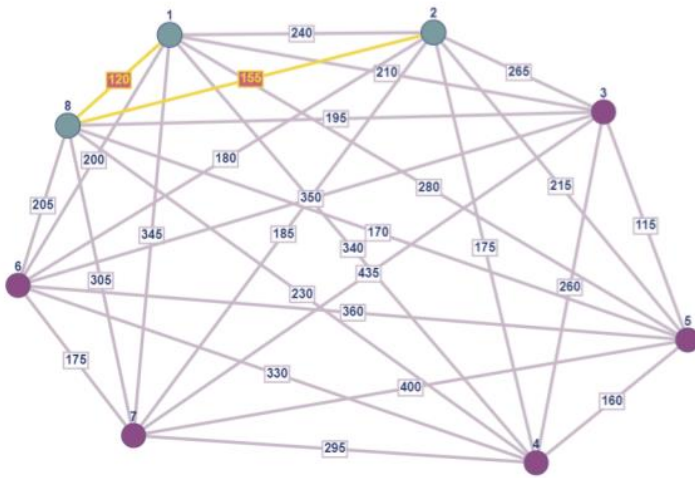
Visited = {1}



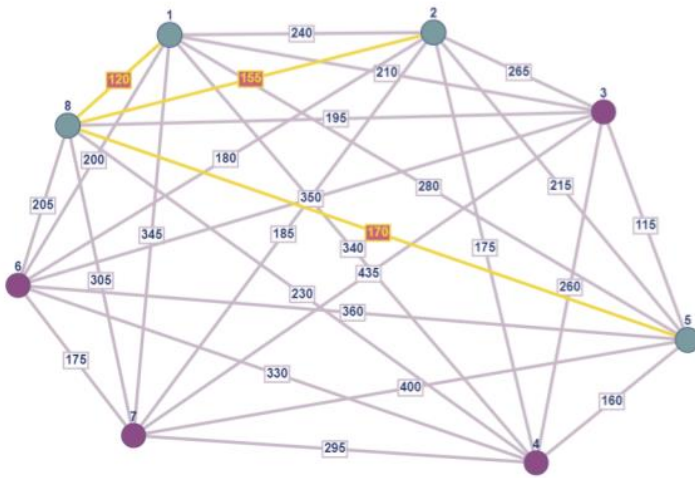
Visited = {1, 8}



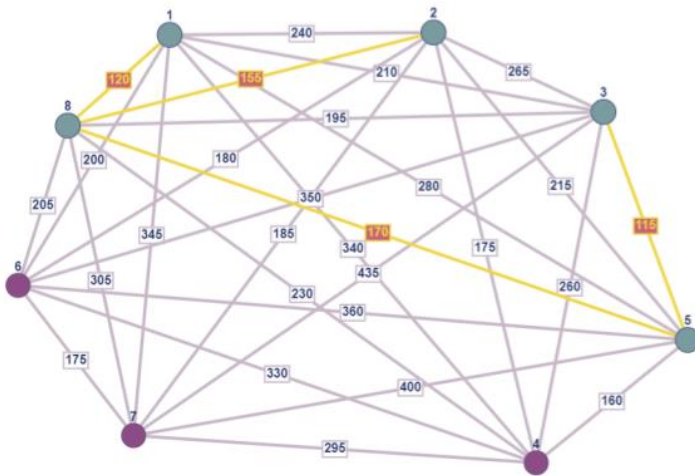
Visited = {1, 8, 2}



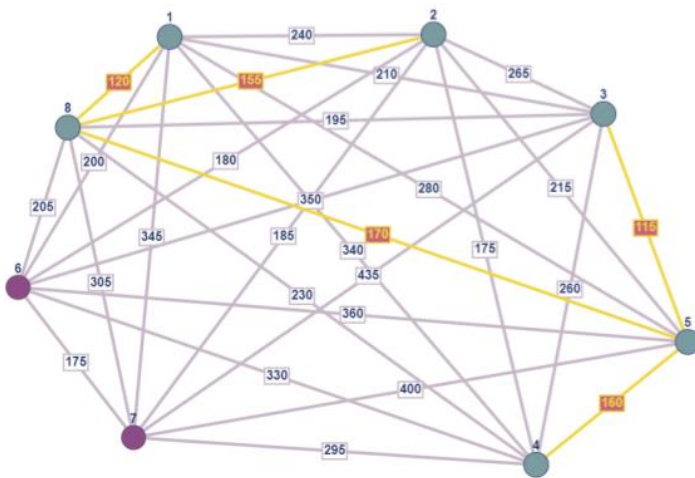
Visited = {1, 8, 2, 5}



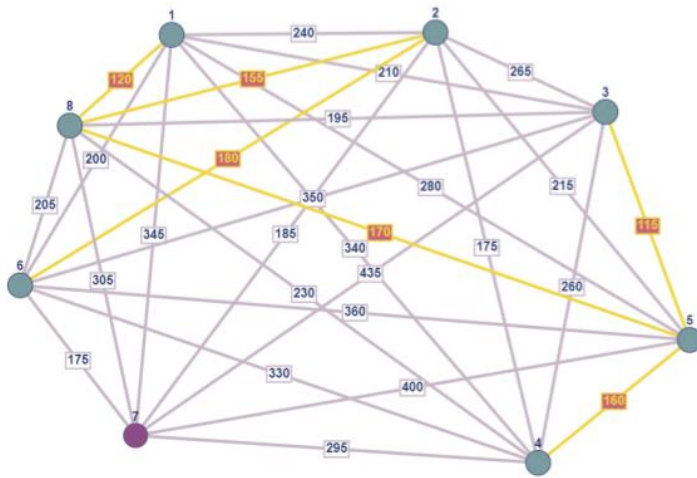
Visited = {1, 8, 2, 5, 3}



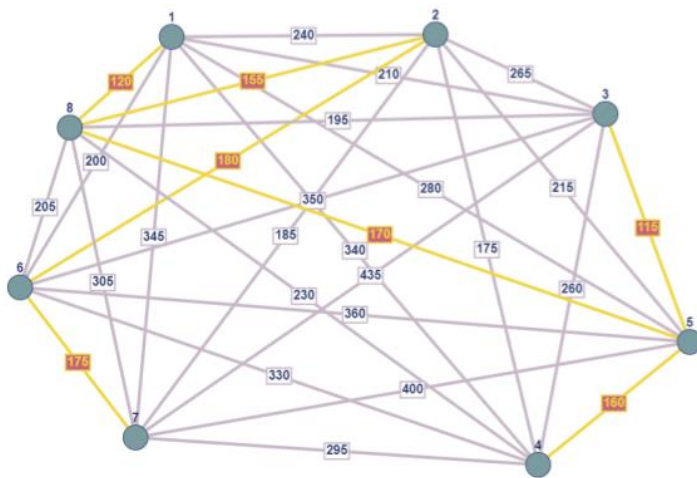
Visited = {1, 8, 2, 5, 3, 4}



Visited = {1, 8, 2, 5, 3, 4, 6}



Visited = {1, 8, 2, 5, 3, 4, 6, 7}



Visited = {1, 8, 2, 5, 3, 4, 6, 7}

