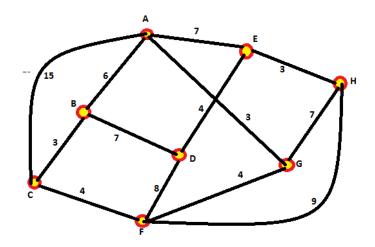
Question: In the given network find the shortest distance from node A to node H using Dijkstra algorithm / OSPF



	Node A	Node B	Node C	Node D	Node E	Node F	Node G	Node H	Remarks
А	0	6(A,B)	15(A,C)	∞ (Ctrl) ▼	7(A,E)		3(A,G)		en means not directly connected, choose the smallest value i.e. Node G
G	-	6(A,B)	15(A,C)	∞	7(A,E)	3+4(A,G,F)	-	3+7(A,G,H)	Previous lowest value is to be added
В	-	,	6+3(<u>A,b,C</u>)	>6+7(A.B,D)	/ 7(A,E)	7(A,G,F)	-	10(A,G,H)	
Е	-	-	9(A,B,C)	7+4(A,E,D)	-	7(A,G,F)	-	10(A,G,H)	We can change H value to 10(A,E,H)
F	-	-	9(A,B,C)	11(A,E,D)	-	-	-	10(A,G,H)	
С	-	-	-	11(A,E,D)	-	-	-	10(A,G,H)	

We have shortest path A to G to H with value 10

We can also have alternate path A to E to H with value 10

	Node A	Node B	Node C	Node D	Node E	Node F	Node G	Node H	Remarks
Α	0	6(A,B)	15(A,C)	8	7(A,E)	8	3(A,G)	8	∞ means not directly connected, choose the smallest value i.e. Node G
G	ı	6(A,B)	15(A,C)	8	7(A,E)	3+4(A,G,F)	-	3+7(A,G,H)	Previous lowest value is to be added
В	ı	,	6+3(A,b,C)	>6+7(A.B,D)	/ 7(A,E)	7(A,G,F)	-	10(A,G,H)	
Е	-	-	9(A,B,C)	7+4(A,E,D)	-	7(A,G,F)	-	10(A,G,H)	We can change H value to 10(A,E,H)
F	-	-	9(A,B,C)	11(A,E,D)	-	-	-	10(A,G,H)	
С	=	=	-	11(A,E,D)	-	-	-	10(A,G,H)	