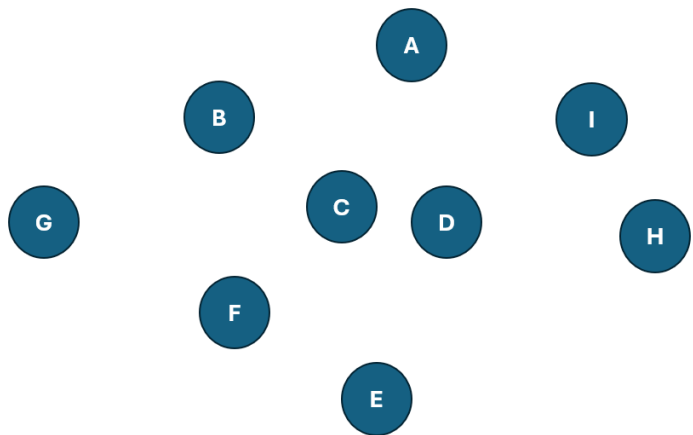


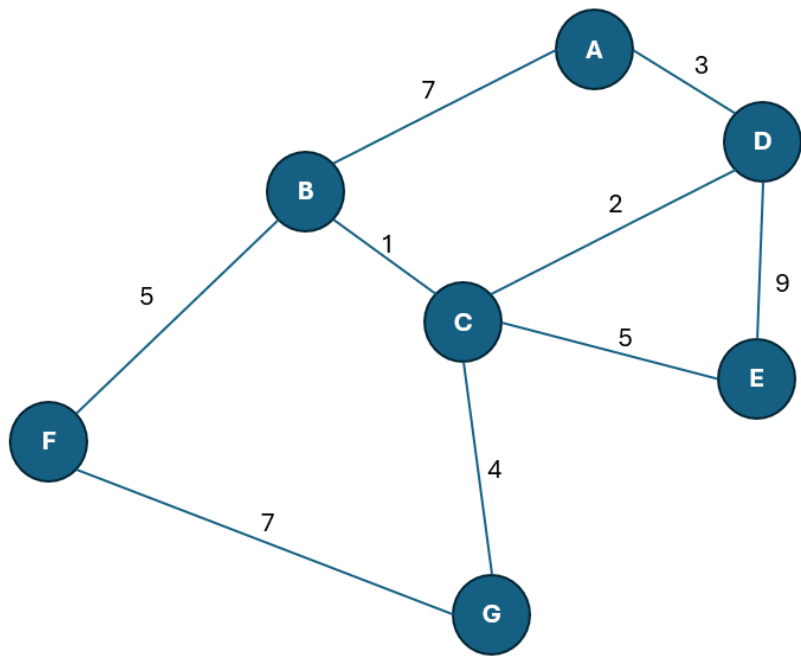
CS 5012: Foundations of Computer Science

In class review:

Using a Divide and Conquer Strategy, How would you find the two closest points in the following scatter plot:



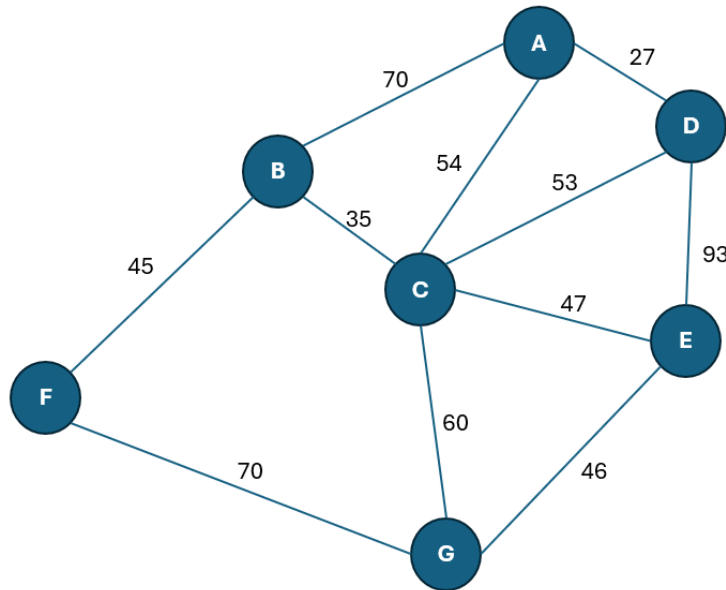
Consider the graph below, use Greedy Search to find the shortest path from A to F.



Node	Heuristic to F
A	7
B	4
C	5
D	8
E	4
F	0
G	7

Consider the above graph, use A* to find the shortest path from A to F.

In class group assignment:



Node	Heuristic to G
A	97
B	71
C	46
D	80
E	41
F	66
G	0

Given the above network and heuristic, use A* to find the best route from Node A to G (10pts)

Open				Closed	
	Node	g(n)	h(n)	f(n)	
1.)	A	0	97	97	A
2.)	B	70	71	141	C
	C	54	46	100	A
	D	27	80	107	
3.)	B	54+35	71	160	G
	D	54+53	80	187	C
	E	54+47	41	142	
	G	54+60	0	114	

Path: A->C->G

I pledge that I have neither given nor received help on this assignment. Alanna Hazlett