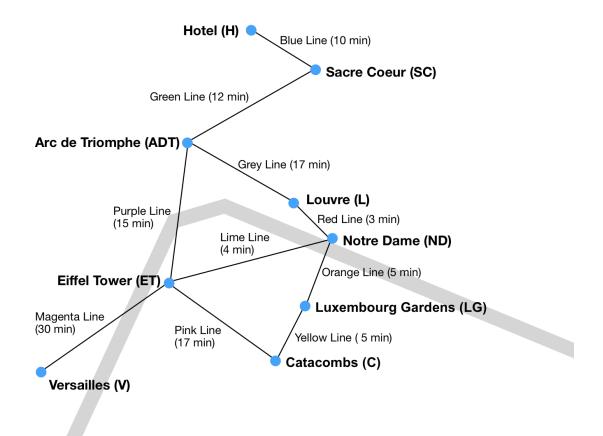
CSE 331 22sp Section 7 Worksheet

Question. Graph searching. We're going to take a trip! To Paris!! To help us plan, a friend has sent us a simplified map of the Paris Metro showing some of the main stops we'll be using. Here it is:



The map, of course, is a graph where the nodes are Metro stops and the edges are labeled with Metro line names and travel times between stops. We would like to use our knowledge of graph search algorithms to discover paths in the graph. Answer the questions on the next page.

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Question (cont.) (a) Find the path with fewest number of transfers (i.e., fewest number of intermediate stops) between your Hotel (H) and the Luxembourg Gardens (LG) and determine how much time it takes. Indicate the algorithm used to find your answer. Fill

			then computing the phabetical ordering		should pick the	
(i) Algorithm used:		BFS	Total travel t	Total travel time:		
	om H to LG wi for each edge)		ers (show the line	used – Blue,	Green, etc. – and	
If there are	two or more p	aths with the san		, write down	to Catacombs (C). n one of them. As	
(i) Algorith	ım used:	Dijkstra's	Total travel t	ime:		
(ii) Fastest each edge) priority que	:	to C (show the li	ine used – Blue, C	Green, etc. –	and travel time for	
Path	Cost	Node	Finished	Cost	Prev	