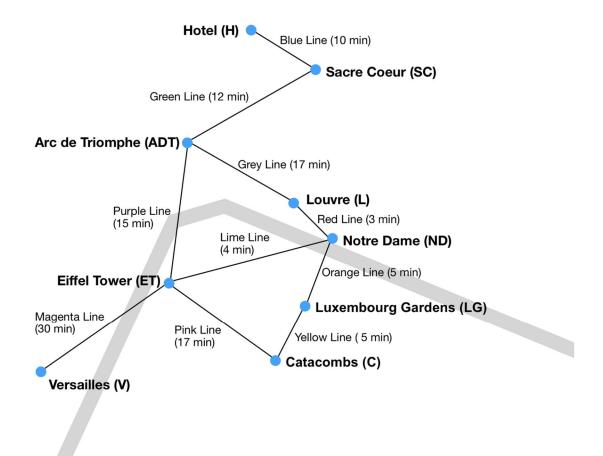
CSE 331 22sp Section 7 Worksheet

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.) Find the fastest path (minimum travel time) from Sacre Coeur (SC) to Catacombs (C). If there are two or more paths with the same minimum time, write down one of them. As above, indicate the algorithm used and then show the path and total time.

(i) Algorithm used:		Dijkst	tra's	Total travel ti	Total travel time:			
(ii) Fastest each edge)	-	C to C (s	how the line	e used – Blue, G	reen, etc. –	and travel time f	or	
priority queue			nodes					
Path	Cost		Node	Finished	Cost	Prev		