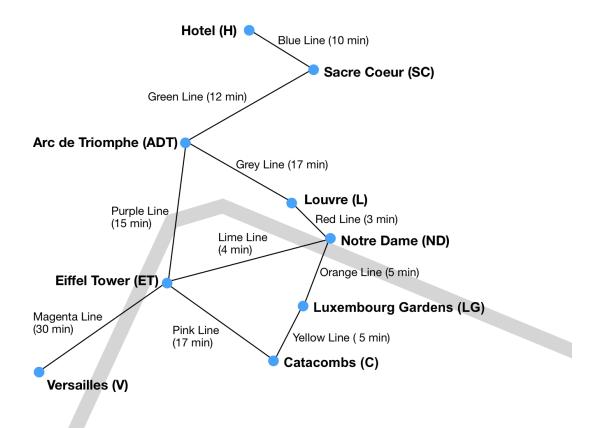
CSE 331 21au Section 7 Worksheet

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. (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

computing			•	our answers bel exicographically		
(i) Algorithm used:		Bl	FS Total tra		el time:	
` '	om H to LG w for each edge		est transfers	s (show the line	used – Blue,	Green, etc. – and
If there are	two or more	paths w	ith the same		, write down	to Catacombs (C). n one of them. As
· ·	-	v		Total travel to		and travel time for
priority que	eue		nodes			
Path	Cost		Node	Finished	Cost	Prev