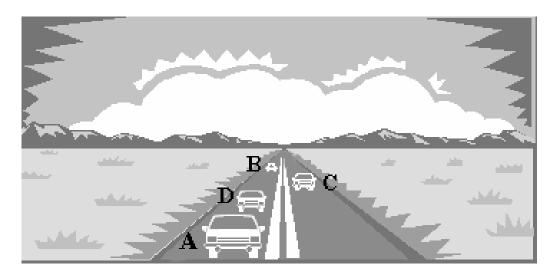
Astronomy Ranking Task: Apparent and Absolute Magnitude

Exercise #1

Description: The figure below shows four identical cars (A - D) driving toward you at sunset with their headlights turned on. Each car is equipped with identical headlights.



A. Ranking Instru	ictions: Rank th	ne distance	(from grea	itest to least)	that each car is from you.	
Ranking Order: (Greatest 1	2	3	4	Least	
Or, the distance to each car is the same (indicate with check mark).						
Carefully explain	your reasoning f	or ranking	this way:			
B. Ranking Instruheadlights.	ıctions: Rank th	ne apparent	brightness	s (from great	rest to least) of each car's	
Ranking Order: (Greatest 1	2	3	4	Least	
Or, the apparent brimark).	ghtness of each	car's headl	ights is the	e same.	(indicate with check	
Carefully explain	your reasoning f	or ranking	this way:			

C.	Ranking Instructions: Rank the actual (intrinsic) brightness (from greatest to least) of each car's headlights.					
Ra	nking Order: Greatest 1 2 3 4 Least					
	the actual brightness of each car's headlights is the same (indicate with check rk).					
Carefully explain your reasoning for ranking this way:						