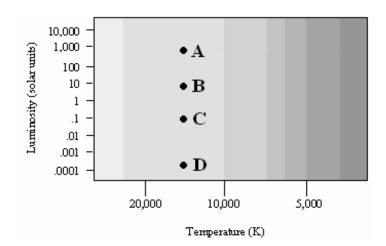
Astronomy Ranking Task: Luminosity of Stars

Exercise #3

Description: Consider the Hertzsprung-Russell (HR) diagram shown below which relates the luminosity (in solar units) to the temperature for four stars (A - D).



	ructions: Rank the temperature of the stars $(A - D)$ from hottes	
Ranking Order:	Hottest 1 2 3 4 Coldest	
Or, all the stars ha	we the same temperature (indicate with a check mark)	
Carefully explain	your reasoning for ranking this way:	
B. Ranking instr		
B. Ranking instr		
B. Ranking instr least (dimmest). Ranking Order:	ructions: Rank the luminosity of the stars (A – D) from greates	

C. Ranking instructions: Rank the surface area of the stars $(A-D)$ from smallest to	largest.			
Ranking Order: Smallest 1 2 3 4 Largest				
Or, all the stars have the same surface area (indicate with a check mark)				
Carefully explain your reasoning for ranking this way:				