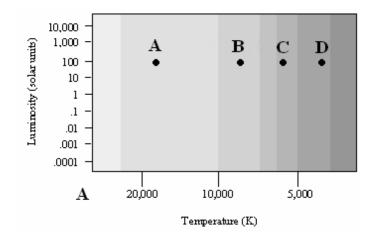
Astronomy Ranking Task: Luminosity of Stars

Exercise #2

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



A. Ranking instructions: Rank the temperature of the stars $(A - D)$ from hottest to coolest.
Ranking Order: Hottest 1 2 3 4 Coldest
Or, all the stars have the same temperature (indicate with a check mark)
Carefully explain your reasoning for ranking this way:
B. Ranking instructions: Rank the luminosity of the stars (A – D) from greatest (brightest) to least (dimmest).
Ranking Order: Greatest 1 2 3 4 Least
Or, all the stars have the same luminosity (indicate with a check mark)
Carefully explain your reasoning for ranking this way:

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