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1. Consider the following types of electromagnetic radiation: visible red, x-rays, visible yellow, ultraviolet, visible green, infrared, visible blue.

a. Put them in the order of increasing wavelength.

b. Photons of which type of the above have the greatest energy?

2. On a clear evening, take a look at the night sky around 7-8 pm. Look in the direction South (and up☺). The most prominent constellation you see is Orion, The Hunter (slightly South-South-West). Its left shoulder is marked by a RED supergiant star called *Betelgeuse*. Its right foot is marked by a BLUE supergiant star called *Rigel*. Now look strictly North (and up☺) and try to find *Polaris* – The North Star, which is a very bright YELLOW supergiant. Can you tell which of these three stars is:

a. the HOTTEST?

b. the COLDEST?

