

**AST 250 – Spring 2018**  
**Homework Due: Wednesday February 21**

18. Consider the following stars and their spectral types. When you do this problem – try doing it without looking at a HR diagram or without looking up L, T, and R. Use just the spectral type information.

Sun	G2.5 V
Sirius	A0 V
Altair	A7 V
Aldebaran	K5 III
Rigel	B8 Ia
Barnard	M4 V

- (a) Order the stars by increasing T
- (b) Order the stars by increasing L
- (c) Order the stars by increasing R
- (d) Create your own mnemonic for the full spectral classification sequence (including brown dwarfs): O B A F G K M L T Y. I'll read a few in class. Be creative and have fun!

