1. When you write an if-block for idiotproofing, does the exit statement belong before the if-block, inside the if-block or after the if-block? Therefore, should the exit statement be indented less than the if statement, the same as the if statement, or more than the if statement?

2. The Kelvin temperature scale is very similar to the Celsius temperature scale, except that zero degrees Kelvin is absolute zero, the lowest physically conceivable temperature. Zero degrees Kelvin is -273.16 degrees Celsius.¹

Write a program that prompts for and inputs a temperature in degrees Kelvin, then idiot-proofs, then calculates the associated temperature in degrees Celsius, then outputs the temperature in degrees Celsius.

You DON’T have to use comments. Otherwise, all rules for Programming Projects (through PP#4) apply.

¹http://www.usatoday.com/weather/wtempcf.htm
3. **DESCRIBE THE CONDITION** of a *while* loop. (“The condition is a ...”) 

4. Are the properties of the condition of a *while* loop the same as, or different from, the properties of the condition of an *if* block?

5. **WHAT ARE THE STEPS** that describe the execution of a *while* loop?
   
   (a) 

   (b) 

   (c) 

6. **HOW** does a *while* loop **DIFFER** from an *if* block?
7. For each of these kinds of statements, mark **CAN** if it can appear in the body of a `while` loop, and mark **CANNOT** if it cannot appear in the body of a `while` loop. **EXPLAIN.**

(a) A named constant declaration

(b) A variable declaration

(c) A `printf` statement

(d) A `scanf` statement

(e) An assignment statement

(f) A `exit` statement

(g) An `if` block

(h) A `while` loop
8. **TRACE** the example program on slides 23 - 25 of the lecture packet titled “while Loop Lesson,” using the input values shown on slides 26 - 27. Your trace should show the following variables: `users_number`, `users_distance`, `users_last_distance` and `correct_number_hasnt_been_input`, but in the trace you can abbreviate their names as `un`, `ud`, `uld` and `cnhbi`, respectively.
9. **DRAW A FLOWCHART** for the Infinite Loop program on slide 15 of the lecture slide packet titled "while Loop Lesson."

If you use **ANY** resources other than Dr. Neeman, the TAs (Borah, Gheibi, Reynolds, Sadri), the course textbook or the materials posted on the course webpage, you **MUST** reference them on the quiz. **THIS INCLUDES CLASSMATES, FRIENDS, PROFESSORS, ONLINE RESOURCES, ETC.**