Prompt the user to enter the miles traveled.  
Prompt the user to enter the gallons consumed.  
Input the miles traveled (possibly the sentinel)  
Input the gallons consumed (possibly the sentinel)

While the user has not yet entered the sentinel  
 Add these miles into the running total  
 Add these gallons consumed into the running total  
 Add one to the tankful’s counter  
 Prompt the user to enter the next miles traveled  
 Input the next miles (possibly the sentinel)  
 Prompt the user to enter the next gallons consumed  
 Input the next gallons consumed