**FarmCensus – 15 Points**

You are an analyst in the FCB. (Farm Census Bureau) It is your job to count chickens and horses on farms and report this information back to the main office. You have an inefficient but accurate process for counting the number of chickens and horses on a farm. You send one subordinate to a farm and have him provide you with the number of heads on the farm. (Assume every chicken and every horse has only one head.) Another flunky's job is to count and report back with the number of legs on the farm. (Assume chickens have two legs and horses have four legs). Given this input, you are able to determine the number of chickens and horses on the farm. You are also able to determine if the combination of heads and legs is impossible so you can send the two back to recount.

Sample # 1 Sample # 2

Enter number of heads: 6

Enter number of legs: 17

Counting error. Recount heads and legs.

Enter number of heads counted: 7

Enter number of legs counted: 22

You have 3 chickens and 4 horses.

This program is located on LiveLab as P\_FarmCensus. It is due by the beginning of class tomorrow.

**FarmCensus – 15 Points**

You are an analyst in the FCB. (Farm Census Bureau) It is your job to count chickens and horses on farms and report this information back to the main office. You have an inefficient but accurate process for counting the number of chickens and horses on a farm. You send one subordinate to a farm and have him provide you with the number of heads on the farm. (Assume every chicken and every horse has only one head.) Another flunky's job is to count and report back with the number of legs on the farm. (Assume chickens have two legs and horses have four legs). Given this input, you are able to determine the number of chickens and horses on the farm. You are also able to determine if the combination of heads and legs is impossible so you can send the two back to recount.

Sample # 1 Sample # 2

Enter number of heads: 6

Enter number of legs: 17

Counting error. Recount heads and legs.

Enter number of heads counted: 7

Enter number of legs counted: 22

You have 3 chickens and 4 horses.

This program is located on LiveLab as P\_FarmCensus. It is due by the beginning of class tomorrow.