SQA Assignment 5 – Fall 2020

Problem Descriptions:

A membership wholesale store is launching its 10th anniversary celebration. New customer now has a welcome offer of a $20 gift card when pay the $45 annually membership fee, start from first year. Furthermore, all members (including new members) who spend more than $200 will see a $20 cash back on check list, and another $30 when spend $400 or more.

Suppose we are to test a system which calculate the total amount of a random customer's shopping cart, and assume all current customers choose not to pay the annual membership fee at this purchase. An input to the system contains two values, **(N, Y)**. **Y** is a **float >= 0** represents the total value of the customer's shopping cart excluding the first membership fee. **N** is a **boolean value** only accept True or False which shows whether the customer is a new member or not. Output **P is a float** represents the total pay at cashier.

Design test cases to cover **all boundaries** for this system. Some **invalid** test cases must also be designed. Note: a test case should contain both input and expected output, i.e., ((N, Y), P).