a. Obstacles

* Learning to use if-else if statements effectively for values that go beyond the scope of what is being tested (i.e. Units sent: 1500)
* Creating if-else if statements that satisfied the five conditions of input that would be invalid
* Lastly, creating a program for the first time

b. Test Data

* Value of units sent less than or equal to 400 (20, 350, 400)
  + To calculate the royalty with the percentage of 9% rate only
* Values of units sent greater than 400, and less than or equal to 1200 (401, 600, 1200)
  + To calculate the royalty with the percentage of 9% for the first 400, and the royalty rate of the next 800 under a different percentage
* Value of units greater than 1200 (1500, 2000, 20000)
  + To calculate the royalty with the percentage of 9% for the first 400, and the royalty rate of the next 800 under a different percentage, and the royalty rate of 14% for all other units
* Values of 0
  + To test if the output will still be in the correct format
* Choosing a premium movie when it wasn't and vice versa (y, n)
  + To calculate the royalty with the 16% vs. the 13% for premium/not premium values
* Negative units sent value (-10, -50, -100)
  + To make sure the output statement is correct
* Negative base price value (-10, -50, -100)
  + To make sure the output statement is correct
* A movie title with an empty string ("")
  + To make sure the output statement is correct
* Inputting a word phrase into the Units sent: line (hi)
  + To test what would happen if an int is not input