CSC-591: Automated Software Engineering
Group - 6: HW4 Answers

1. "print 3" gives best result: [2130, 24.5, 41]

2. Statistics of "print 5":

	Lbs-	Acc+	Mpg+
Mean	2360.67	16.50	29.09
Median	2309.60	16.60	29.49
Standard Deviation	173.63	0.28	1.69

3. Statistics of "print 6":

	Lbs-	Acc+	Mpg+
Mean	2164.31	17.68	35.10
Median	2074.0	17.30	40.00
Standard Deviation	337.6	2.57	5.84

4. Answer to the questions asked:
   a. **Does SMO do better than the random baselines (see prints 1, 2, 4)?**
      Yes, the values of "print 1," "print 2," and "print 4" are clearly visible throughout the whole distribution range. The numbers in the 'Lbs' field, for example, vary from 1600 to more than 4000. Conversely, the statistical data presented above indicates that the values of "print 5" and "print 6" are closer together and more concentrated than those of "print 1," "print 2," and "print 4."

   b. **How many y row evaluations are required for print 3?**
      All of the 398 rows are required for print 3. The reason for this is we have to sort the rows based on their distance to heaven.

   c. **How does SMO do compared to absolute best (print 3)?**
      SMO performs better. Since the mean and median of "print 5" and "print 6" are closer to the value of "print 3," they are giving better results in our analysis.

      Because of its higher standard deviation, the data from "print 6" shows greater dispersion than the data from "print 5".

Done by: Rushil Vegada (rvegada), Siddhi Mule (smule), Swarangi Gaurkar (sgaurka)