Testing both generations and time shows that this algorithm is O(n^2) from the data we were able to collect. We tested up to n = 100, and it seems consistent with n^2 although there were considerable spikes that the amount of experiments could not reduce. The graph is included, with the closer trend line being (y = 0.0246x2 - 1.3495x + 17.181) and 97% accurate. To increase the accuracy of our big O prediction, more experiments and variables beyond 100 are needed, however the time between each is too long for our group to experiment on currently.