How each vector was generated:

srand((unsigned int)time(nullptr)) was used to ensure that different values would be generated each time an executable was ran, and std::rand() to generate the values. The same code is used to generate the values in each executable, with the exception being bucketSort, where floats are generated instead of ints. After filling the first vector of the first testing size in the main function, refilling the following vectors with random ints was done using the same code, but with a call to the function refill(std::vector<int> &v, int size), where the vector and the size of the vector are passed in for filling.

Here is the code in main:

```
srand((unsigned int)time(nullptr));

// fill vector here
for (int i = 0; i < size; ++i)
{
   int val = (std::rand() % 20000);
   V.push_back(val);
}

The code in the refill function:
// to refill vectors to the next testing size
void refill(std::vector<int> &v, int size)
{
   for (int i = 0; i < size; ++i)
   {
     int val = (std::rand() % 20000);
     v.push_back(val);
   }
}</pre>
```

The plots are on the following pages.













