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Data Structures I

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**Assignment 2**

This assignment implements a Fibonacci heap for analyzing its algorithmic complexity. There are two types of heaps implemented: (1) a standard Fibonacci heap which utilizes marks and cascading cuts in the decrease key operation, and (2) a naïve version which utilizes only single cuts. The following graphs plot the as a function of the heap size.

1. **Random Test**

The chart below plots.

**Figure 1: Random Test**

1. **Biased Test**

**Figure 2: Biased Test**

1. **Special Test**

**Figure 3: Special Test**