**Eight Puzzle – Run Time Analysis**

**Priority Queue as a Heap**

Priority Queue is a: **Heap:**

**Enqueue is O(logn)**

**Dequeue is O(logn)**

Machine specifications:

**YOUR ANSWER HERE:**

**Dell Laptop**

**2.40 GHz i7 CPU**

**8 GB Memory**

**64bit Windows OS**

Longest Reported Run Time: **YOUR ANSWER HERE**

Longest Number of Moves: **YOUR ANSWER HERE**

Total Run Time for  
all possible States: **YOUR ANSWER HERE**

**Program output:**

Generating All Possible States... Done!

012

345

678

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PREVIOUS SOLUTION DATA

Number of moves: 1, Time Needed: 0.00 Seconds

States solved: 1, Total Running Time: 0.00 Minutes

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012

345

867

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312

045

867

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312

845

067

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**Show at least 500 solutions to reachable states and estimate the total run time needed for all possible solutions!!**