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| ECE 573 – DATA STRUCT & ALGS |
| ASSIGNMENT 3 |
| Symbol Tables |

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| Zhongze Tang (zt67)  2018-3-27 |

DSA HW3 Report

Zhongze Tang (zt67)

Q1

Q2

**Q3**

The results are:

Result of 10000 is: 0.25411100000000003

Result of 100000 is: 0.2539944

Result of 1000000 is: 0.25390362999999994

We can safely conclude that the average percentage of red nodes in a random-input red-black tree is 25.4%.

Q4

**Q5**

1. The value of *select(7)* is 8.
2. The value of *rank(7)* is 6.