Assignment 1 Programming Report

I implemented a different main method and use random class, to generat the size for 10^1, 10^2, 10^3, 10^4, 10^5, 10^6. For each different size I did 10 times test:

	the range of expected % of red node	hightest %	lowest %
10^1	20~30	30	20
10^2	20~30	30	20
10^3	24~28	28	24.29
10^4	25~26	25.9	25.04
10^5	25~26	25.28	25.45
10^6	25~26	25.35	25.43

From the result I think the size # get bigger, the range of expected % of red nodes in red-black tree get smaller, and from 10^4, 10^5, 10^6 we can see the expected % of red node is around 25%