Analyze report

I.Conclusion

when n close to 100 the initial height logn will be to about sqrt(n);

II.Evidence

Description: This experiment runs the every experiment 20 times. The result can be show by four factor initial tree size n, final tree size fn, final height h(n), final sqrt (tree size) sqrt(fn);

we use f(h(n),sqrt(fn)) = h(n)/sqrt(fn) to describe how close the two factor are.

So we get the chart

Abscissa is n, Ordinate is f(h(n),sqrt(fn)).

the n is form 10 to 1000;

the p(add) = p(remove) = 1/2;

operator in every experiments is 10000

Obverse when the f(h(n),sqrt(fn)) close to 1, h(n) is close to sqrt(fn)