Assignment 3

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Linear relationship between quad space and linear space runtime:

What is the significance of the slope of the line?

It shows the slope of linear relationship between them. This linear relationship follow a linear equation aX+b=0 which a is the slope of the equation. The slope (a) demonstrate that linear space algorithm take a times more longer than quad space algorithm.

What is the significance of the offset of the line?

It shows that there is always a constant difference in addition to the linear relationship.

log/log scatter polt





