**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**

