Algorithm performance

How to measure?

By the end of this video you will be able to...

- Explain why the performance of an algorithm is important
- Describe some factors that impact the performance of an algorithm

Flesch score =
$$206.858 - 1.015 \frac{\text{# words}}{\text{# sentences}} - 84.6 \frac{\text{# syllables}}{\text{# words}}$$

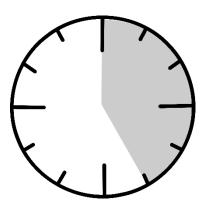
There is hereby imposed on the taxable income of every individual (other than a surviving spouse as defined in section 2(a) or the head of a household as defined in section 2(b)) who is not a married individual (as defined in section 7703) a tax determined in accordance with the following table:

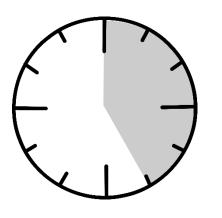
If you are single, never lost your spouse, and not the head of a household, you pay taxes according to the following table:

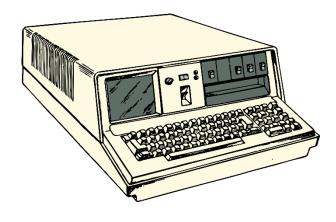
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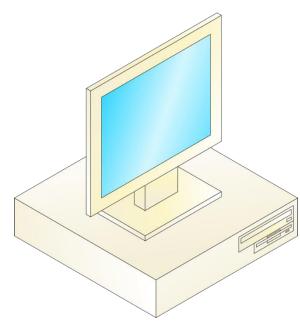
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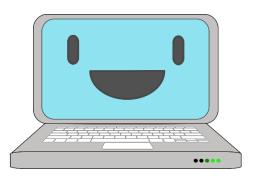
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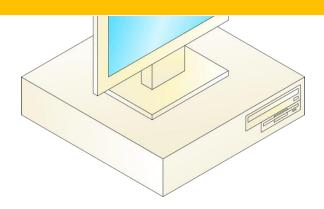


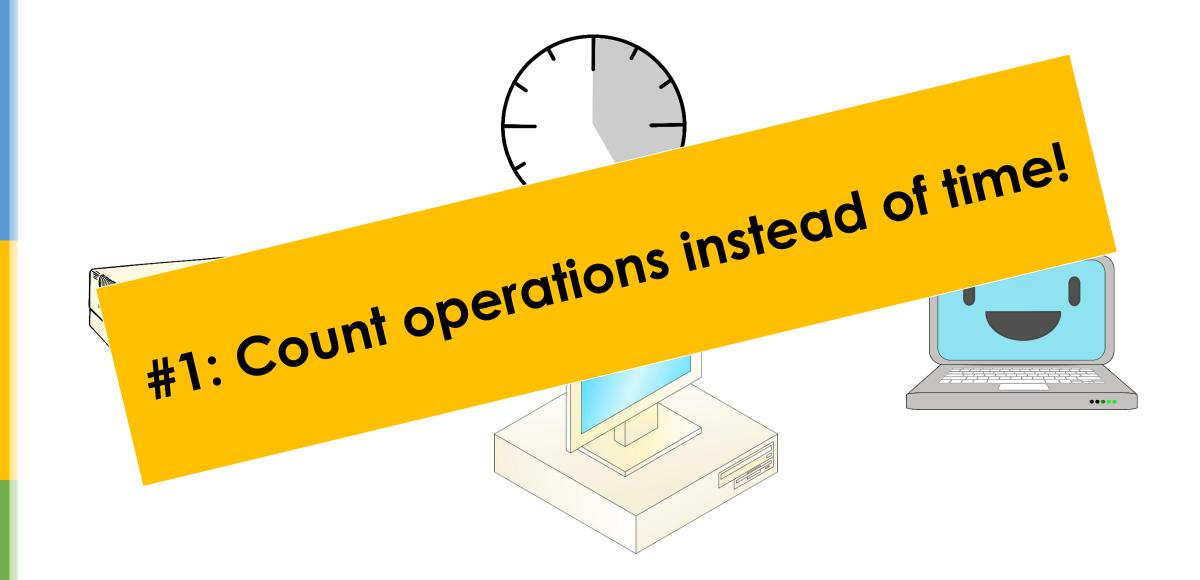




Should we give up trying to measure?







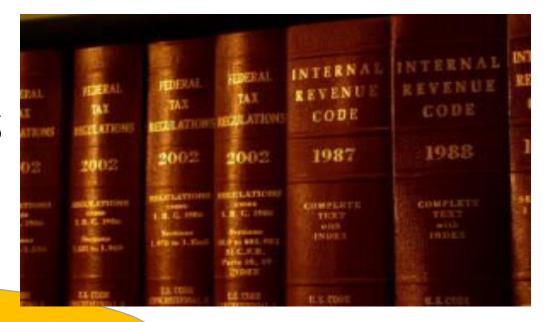
How many operations get executed?

Start at first index of array / list

While current index is less than length: count syllables

How many operations

Start at first index of array / list



While current index is less than length:

count syllables

How many operations get ex

#2: Focus on how performance scales Start at first inde

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If list is **twice** as long,

how much more time does it take to search it?

Is size all that matters?



#1: Count operations instead of time

#2: Focus on how performance scales

#3: Go beyond input size