Introduction to Algorithms

- Slides by Avi Wigderson


## Evaluating how good (how efficient) an algorithm is

How does the number of basic steps of an algorithm increase with the data size (input length)?
input


$10^{80}=10000000000000000000000000000000000000000$
0000000000000000000000000000000000000000
$10^{80}$ - is a small number to write down - is a large number to count to
$10^{40}=10000000000000000000000000000000000000000$
$\approx$ number of steps of the fastest computer before the sun dies



