































	Tractable Problems (P)
•	Fortunately, many practical problems are tractable.
•	 The name P stands for Polynomial- Time computable. Polynomial = constant, linear, quadratic, But <u>not</u> exponential!
•	 Computer scientists spend most of their time finding efficient solutions to tractable problems. But also lots of useful work in figuring out how to get approximate solutions for non-tractable (i.e. NP-complete) problems.
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Ge	ography Game:
Giv	en a set of country names:
Ang	gola, Canada, Cuba, France, Italy, Japan, Korea, Vietnam
A tv	vo player game:
On	e player chooses a name. The other player must choose a
nar	ne that starts with the last letter of the previous name and so
on.	A player wins when his opponent cannot play any name.







•	Know the difference between problems that are P (known to be
	"easy") and those that are NP (possibly "hard").
•	Be able to name some examples of NP-complete problems.
	Be able to name some examples of tractable (polynomial-time)
	problems.
	Understand the idea of reduction, as used in complexity theory.