

Lecture 35

CSE 331

Apr 27, 2020

$$Y \leq_P X$$

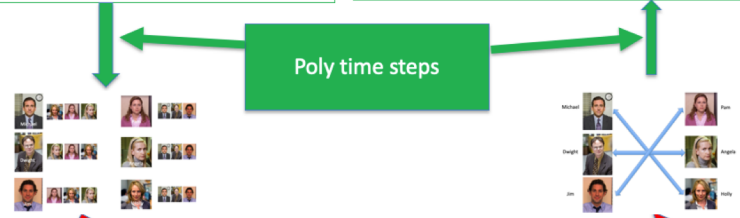
Question 2 (Big G is in town)

\leq_P



CSE Major	Slot 1	Slot 2	Slot 3	Slot 4
S ₁	E ₁	free	E ₂	free
S ₂	free	E ₁	free	E ₂

CSE Major	Slot 1	Slot 2	Slot 3	Slot 4
S ₁	E ₁	free	E ₂ (truncate here)	
S ₂	free	E ₁ (truncate here)		



ANY algo for stable matching problem works!

Arbitrary Y instance

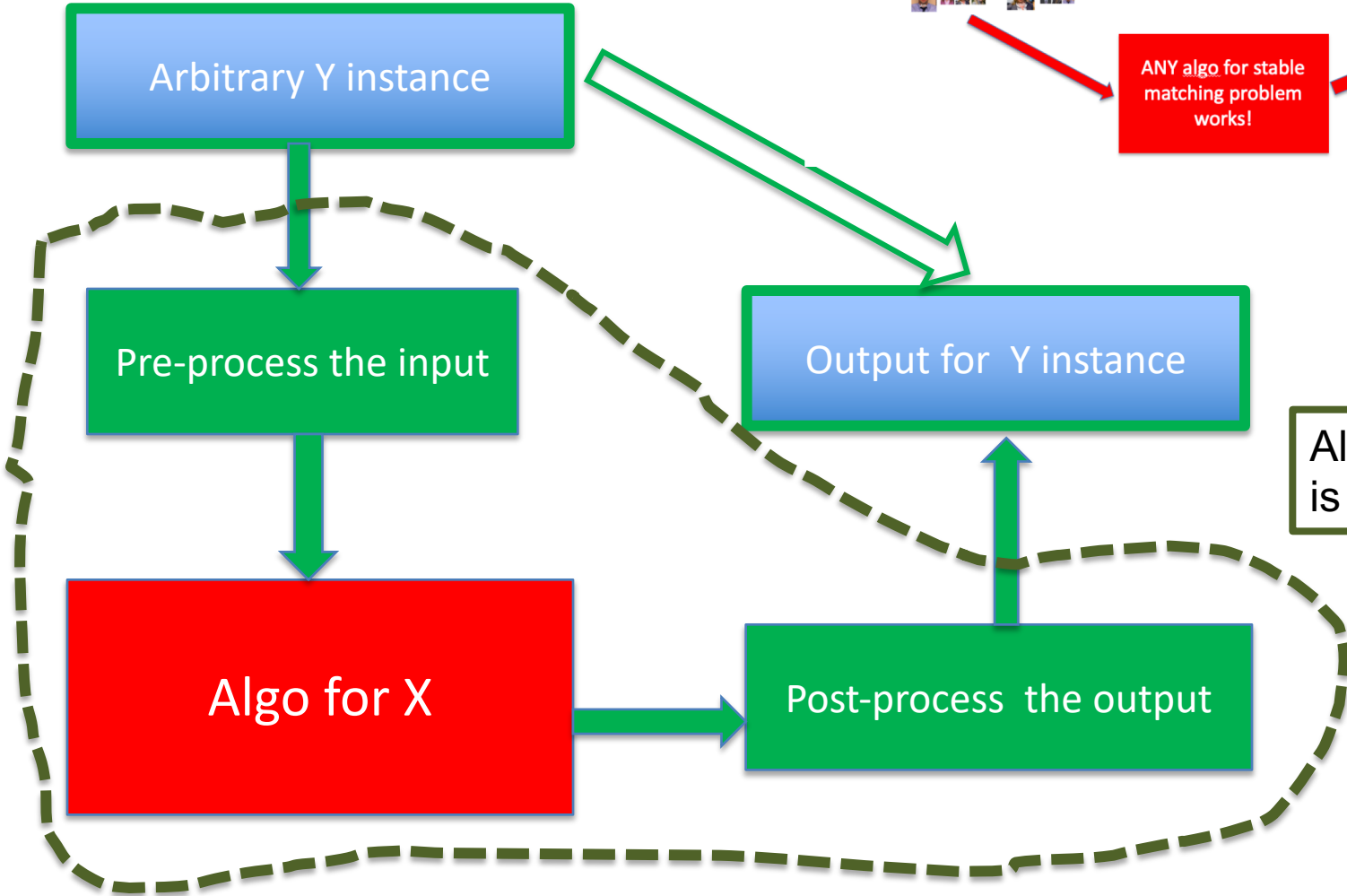
Pre-process the input

Algo for X

Output for Y instance

Post-process the output

All processing is poly-time



Implications of $Y \leq_p X$

