Cell Tower Scheduling

Input:

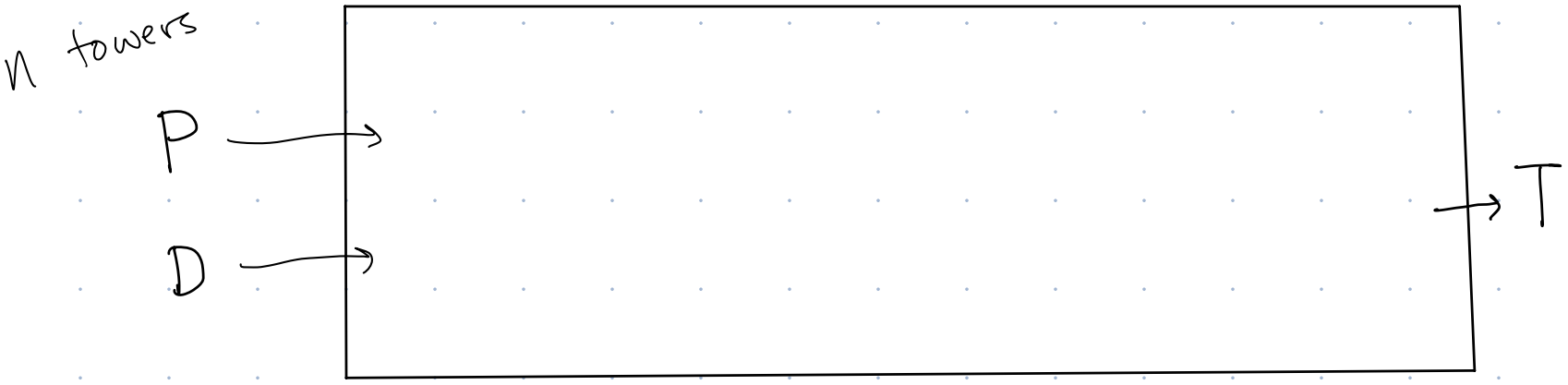
Output:

.

.

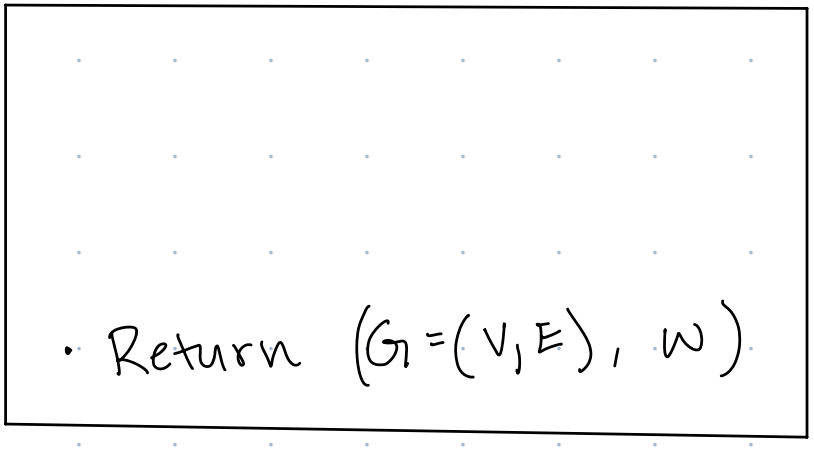
Reduction

Cell Tower Problem

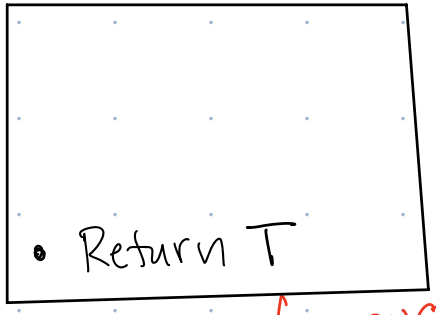


1. What should input/output conversion functions be?

I.C. (P, D)



O.C. (S)



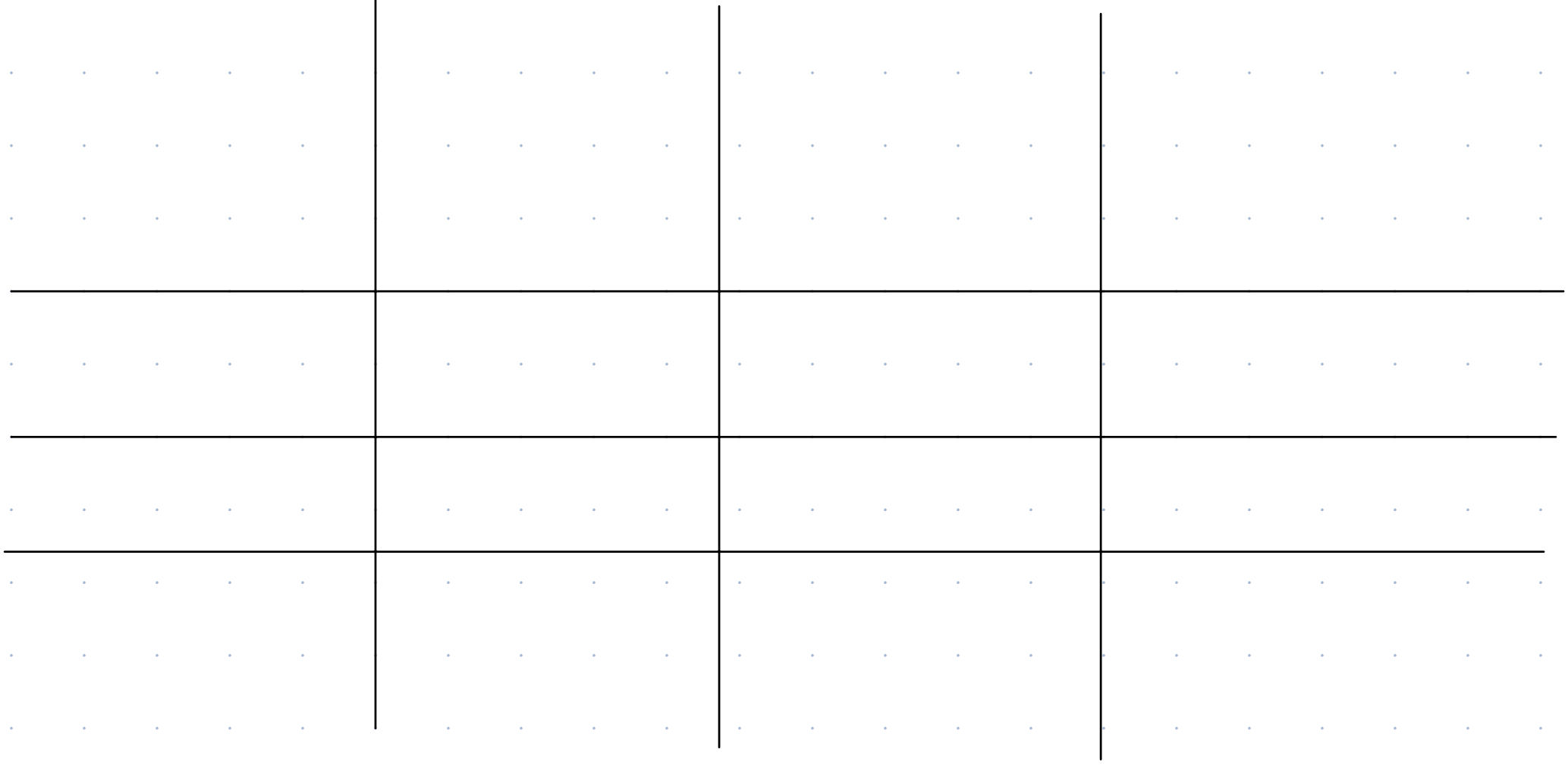
Multiple groups of customers based on how alg treats groups differently

2. Ethical Matrix (Stakeholders, Well-Being, Autonomy, Justice)
3. Runtime of conversions in terms of n?

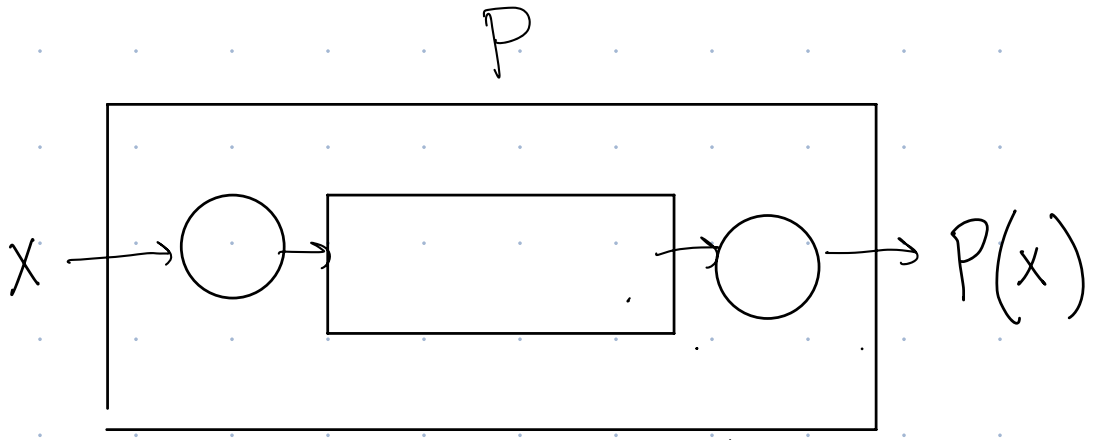
Ethical Matrix (O'Neil + Gunn)

Cell Tower

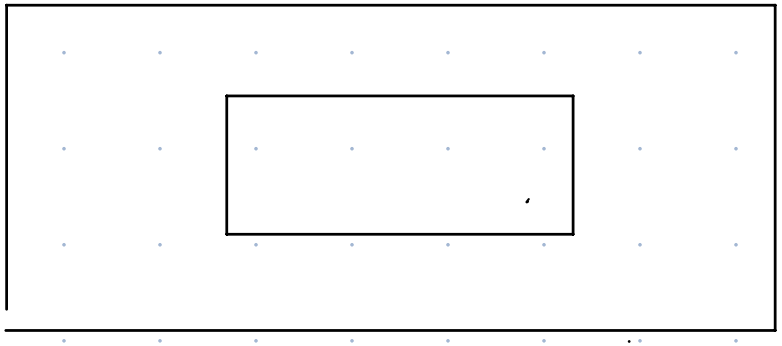
Stakeholders	Well-Being Harm? Benefit?	Autonomy Choice to use? Are users informed enough to understand meaningfully take responsibility for use?	Justice Unfair treatment of different groups? Access to Tech/Alg?



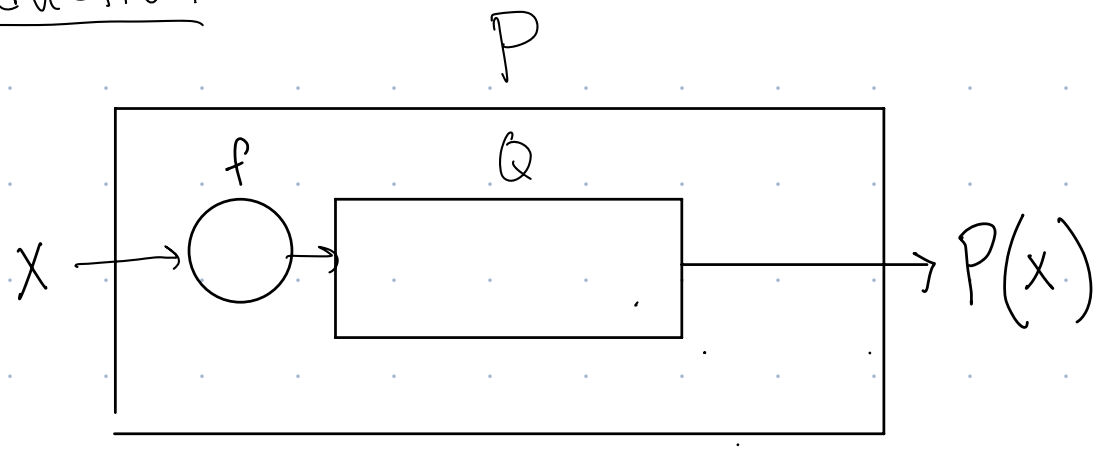
Polynomial-Time Reduction

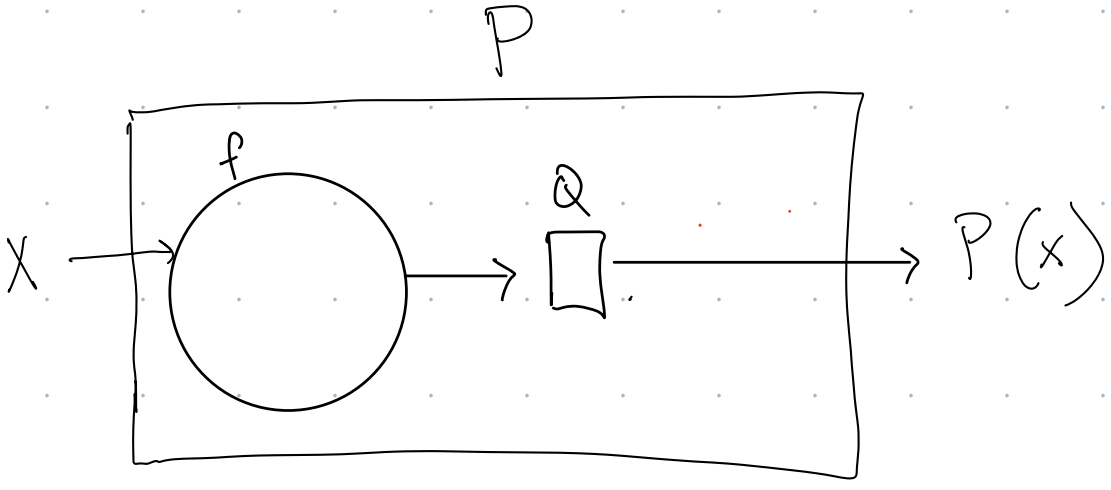


def:



Generic Reduction





Why think about reductions?

- Practical:

- Conceptual: