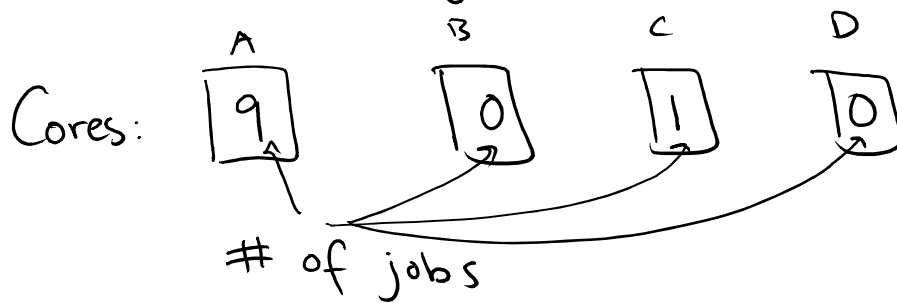


Notes on Quiz

- I have to grade paragraph questions
- #5, Most Incorrect \rightarrow That's on me. Everyone who answered got credit
- If you have 10 jobs and 4 cores, then

Incorrect Proof by example



Q: Why doesn't this prove the statement?

A: Maybe there is a different way of assigning jobs where no core has more than 3 jobs.

Rephrase: For every way of assigning 10 jobs to 4 cores, there is one core with at least 3 jobs.

* Check if there is an implied "for all." } To see if proof by example is not correct.
 * Check that an example doesn't prove.

Contradiction

$$\begin{aligned} \bullet \text{ Prove } P : & \quad \neg P \rightarrow Q \\ & \quad \neg P \rightarrow \neg Q \end{aligned}$$

$$\begin{aligned} \bullet \text{ Prove } R \rightarrow W : & \quad \neg(R \rightarrow W) \rightarrow Q \\ & \quad \neg(R \rightarrow W) \rightarrow \neg Q \\ & \quad \underbrace{\hspace{10em}} \\ & \quad \neg(R \rightarrow W) \equiv R \wedge \neg W \\ & \quad \text{so do} \\ & \quad R \wedge \neg W \rightarrow Q \\ & \quad R \wedge \neg W \rightarrow \neg Q \end{aligned}$$

For contradiction:

- Assume 10 jobs on 4 cores, ^(and) but all cores have less than 3 jobs.