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# META

Bijections, FLT, RSA, Polynomials, Secret Sharing

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## 1 General Comments

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### 1. Logistics

- Cookies! (are in 283G)
- Ask them about the guerilla session, if they attended; what they thought about it what they liked/didnt like, etc.
- And also same thing about our review session slides

### 2. Bijections

- Make sure that they understand one-to-one = injective and onto = surjective
- Make sure to go over what it means to be a well-defined function, this is *essential* to understanding injective/surjective.
- Don't be afraid to spend a good chunk of time talking through the drawings.
- Many students will assume that surjections are just injections from the codomain to the domain (they are not!).
- The why is this mapping (not) bijective questions are important
- Make sure theyre comfortable with bijections (this will be especially important in RSA)
- Emphasize that bijection is equivalent to invertibility.

### 3. FLT

- Last question is kind of repetitive skip if low on time

### 4. RSA

- Sections earlier in the week may not have strong RSA practice, so don't spend too much time if they aren't very familiar with it
- If you don't get to the RSA questions, briefly explain how it works on a high-level
- Make sure they understand how RSA actually works the implementation questions test for that pretty well
- Draw a picture! Ask what is public? What is private?
- Coin tosses question is interesting. Tests if they actually understand why RSA works, rather than just how it's implemented
- Go over the proof from notes on how/why RSA works

#### 5. CRT

- THIS SECTION WAS REMOVED. NOT COVERED THIS SEMESTER

#### 6. Polynomials

- Monday-Wednesday will probably not get to this

#### 7. Secret Sharing

- This is in there just for Friday people

#### 8. Mandatory questions you have to get to

- Bijections: Why you can't find injections/bijections between some spaces
- FLT: FLT Proof
- RSA: That one proof about how it works and applies FLT
- Polynomials: Only do this if you have time, if you get to this do a vanilla intro
- Secret Sharing: Again do a vanilla intro if you get to this section