# 1 | day one!

# 1.1 | relations

# 1.1.1 | equivalence relation

- 1. reflexive, transative, symmetric
- 2. a relation on a set

### 1.1.2 | order relation

like, are we ordering objects?

- 1. reflexive? not necessarily  $, \leq$
- 2. asymmetric? it's antisymmetric
- 3. transitive!

### 1.2 | cardinality

# 1.3 | orderings

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