



A CRDT is defined by:

- **S: Initial state**
- **join(s1, s2): Merge function**
- **value(s): Value function**
- **Mutators**
 - **increment(): S**



Attempt 1

A GCounter is

- $S = 0$
- $\text{join}(s1, s2): \max(s1, s2)$
- $\text{value}(s): S$
- **Mutators**
 - $\text{increment}(): S + 1$