

Idempotent Operations

- Idempotent operations are those that can be repeated multiple times, without any side effects
- Examples (x is server-side variable)
 - $x=1;$
 - $x=(\text{argument}) y;$
- Non-examples
 - $x=x+1;$
 - $x=x*2$
- Idempotent operations can be used with at-least-once semantics