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## Xfer

xfer(A, B, amt)

A < -A - amt;

 $B \leftarrow B + amt;$ 

## recovery

## start at the top:

while more records

if commit add t to committed list

if change and t not in committed list, undo

start at the bottom:

while more records

if change and t in committed list, redo

## Scenario

- <br/>
  <br/>
  degin 17>
- <br/>
  <br/>
  <br/>
  degin 18>
- <change 18 F 4500 5300>
- <outcome 18 abort>
- <br/>
  <br/>
  <br/>
  degin 19>
- <change 19 F 4500 5000>
- <outcome 19 commit>
- <change 17 F 5000 4000>
- <change 17 B 7500 8500>
- <outcome 17 commit>