# Collective Communication with Distributed Memory

CS 5/4473 Parallel Distributed and Network Programming
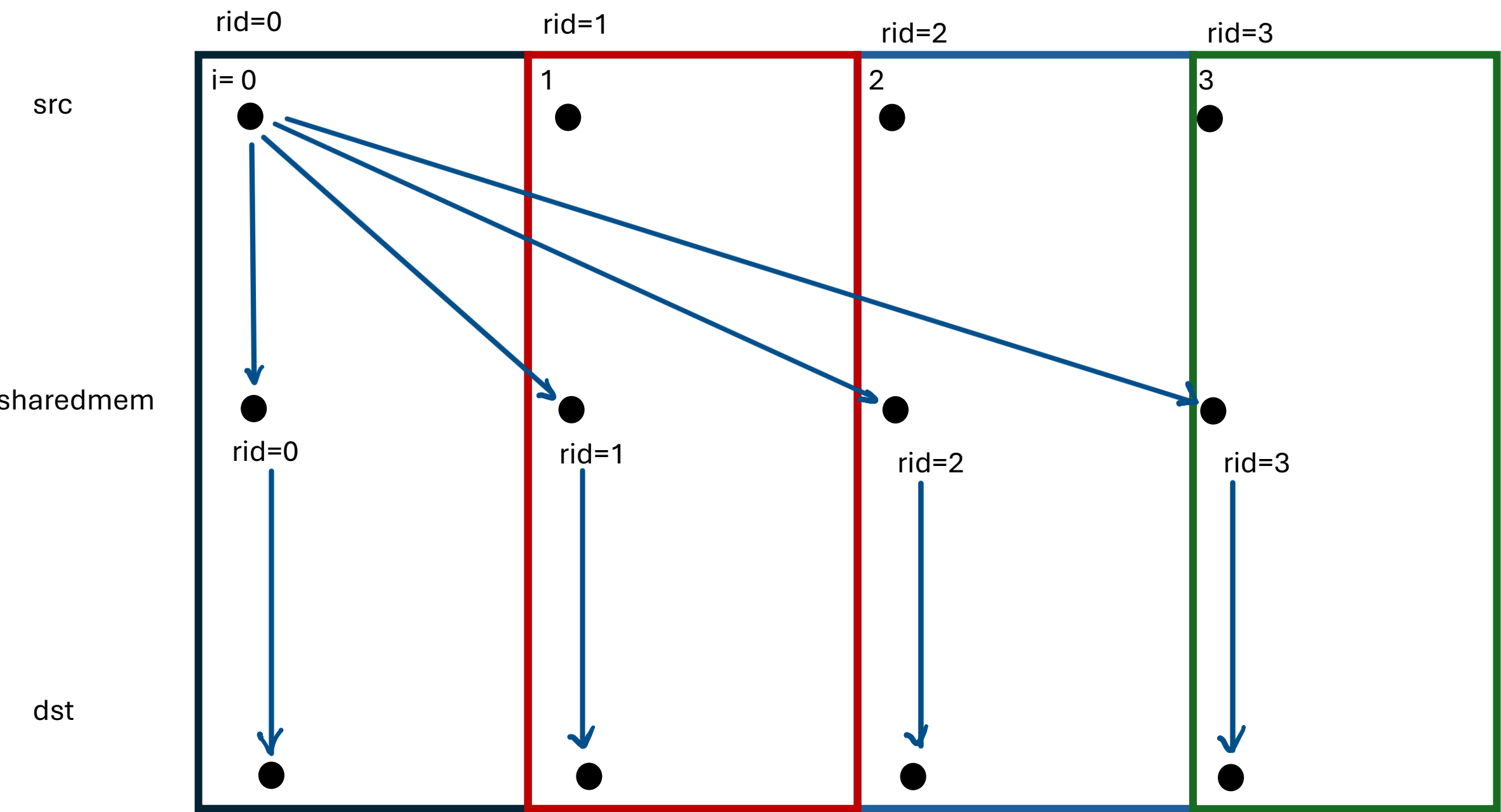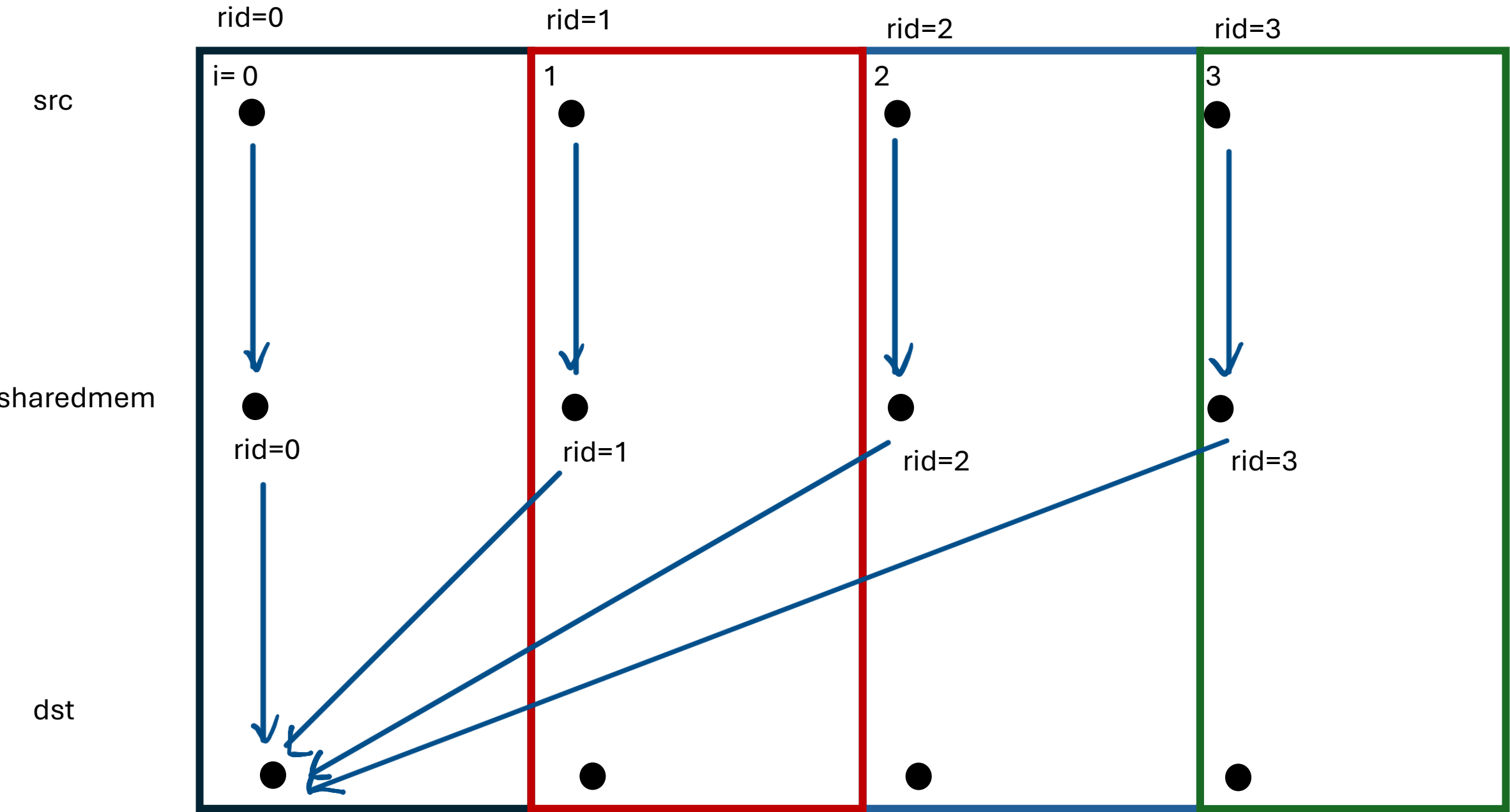
Dr. Richard Veras

Joy Mosisa

# Instructions

- For each problem in the code (XX.Z) draw the data movement (add all of the arrows) between:
  - src --> shared_mem --> dst
- You can use this template, but you are not required to use it.
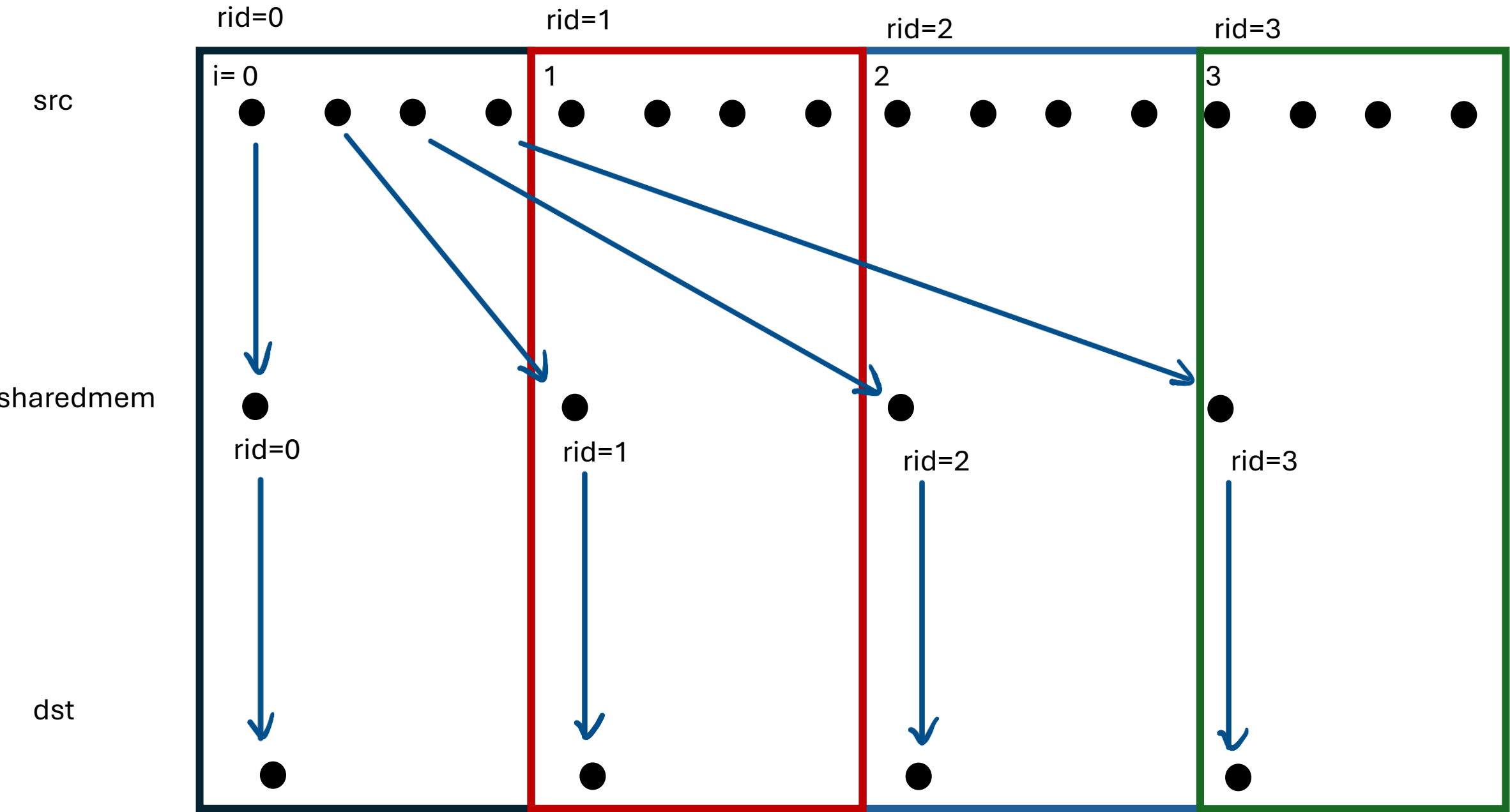- rid is tid here
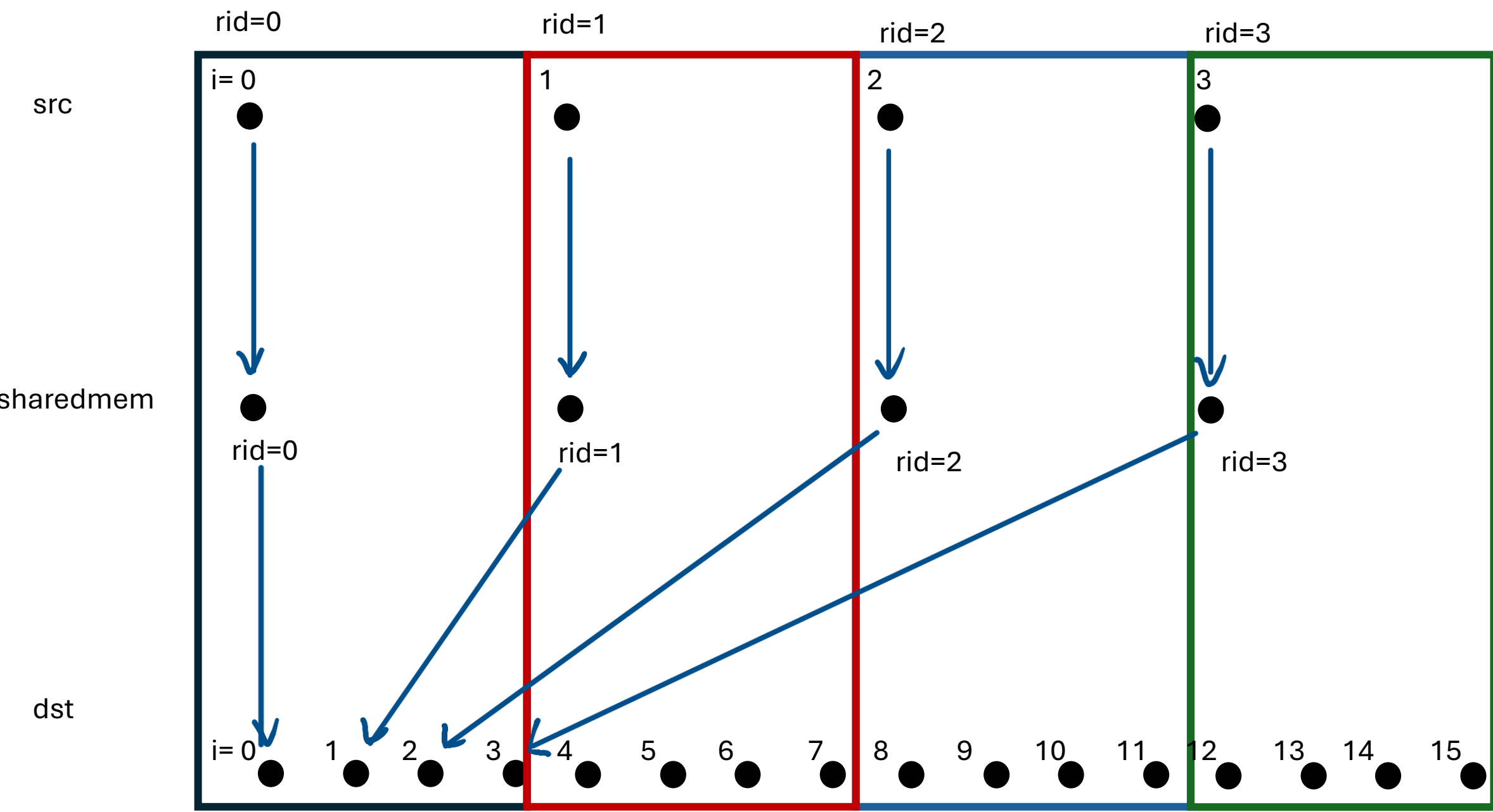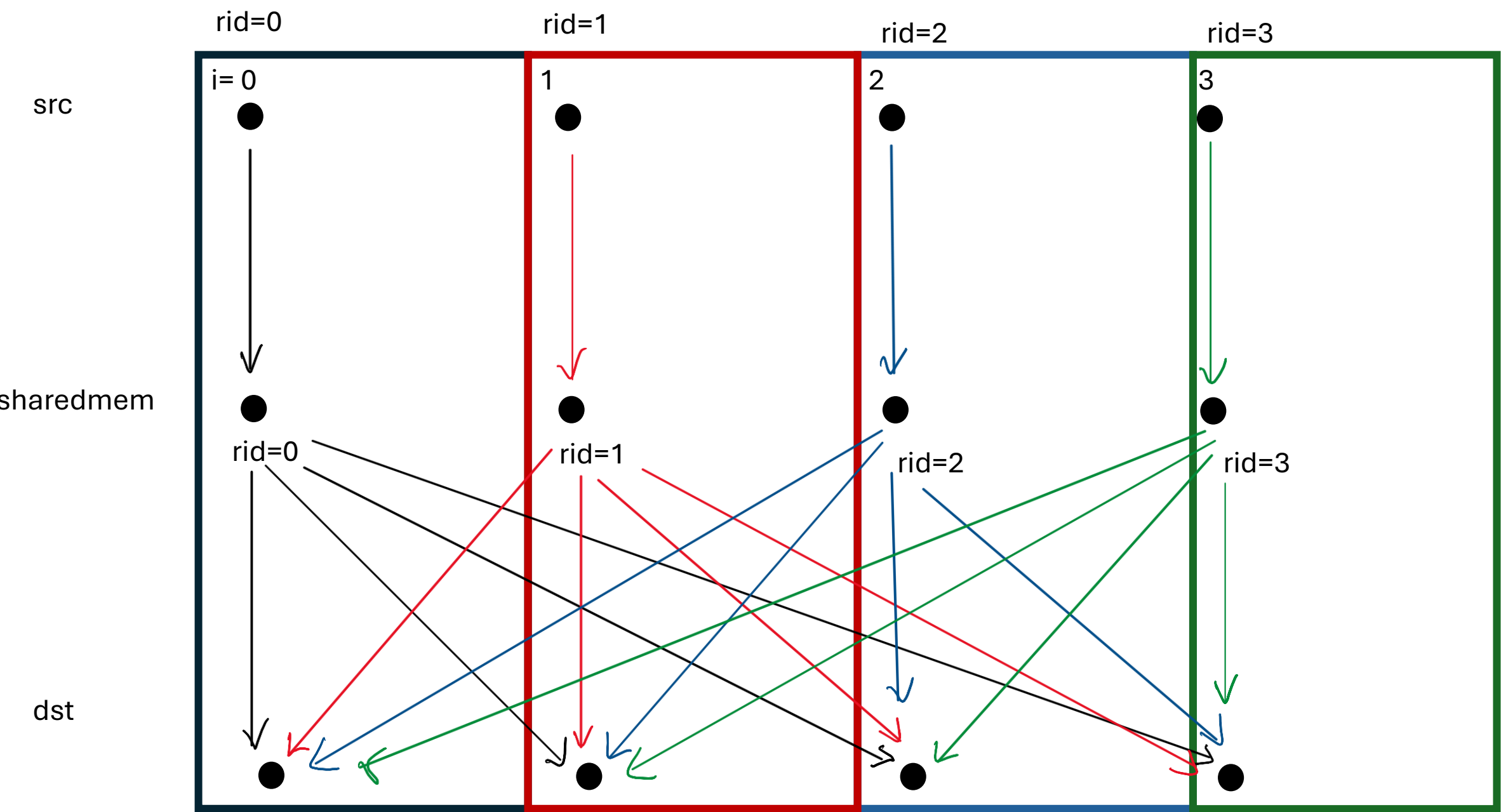- Assume root_rid=0

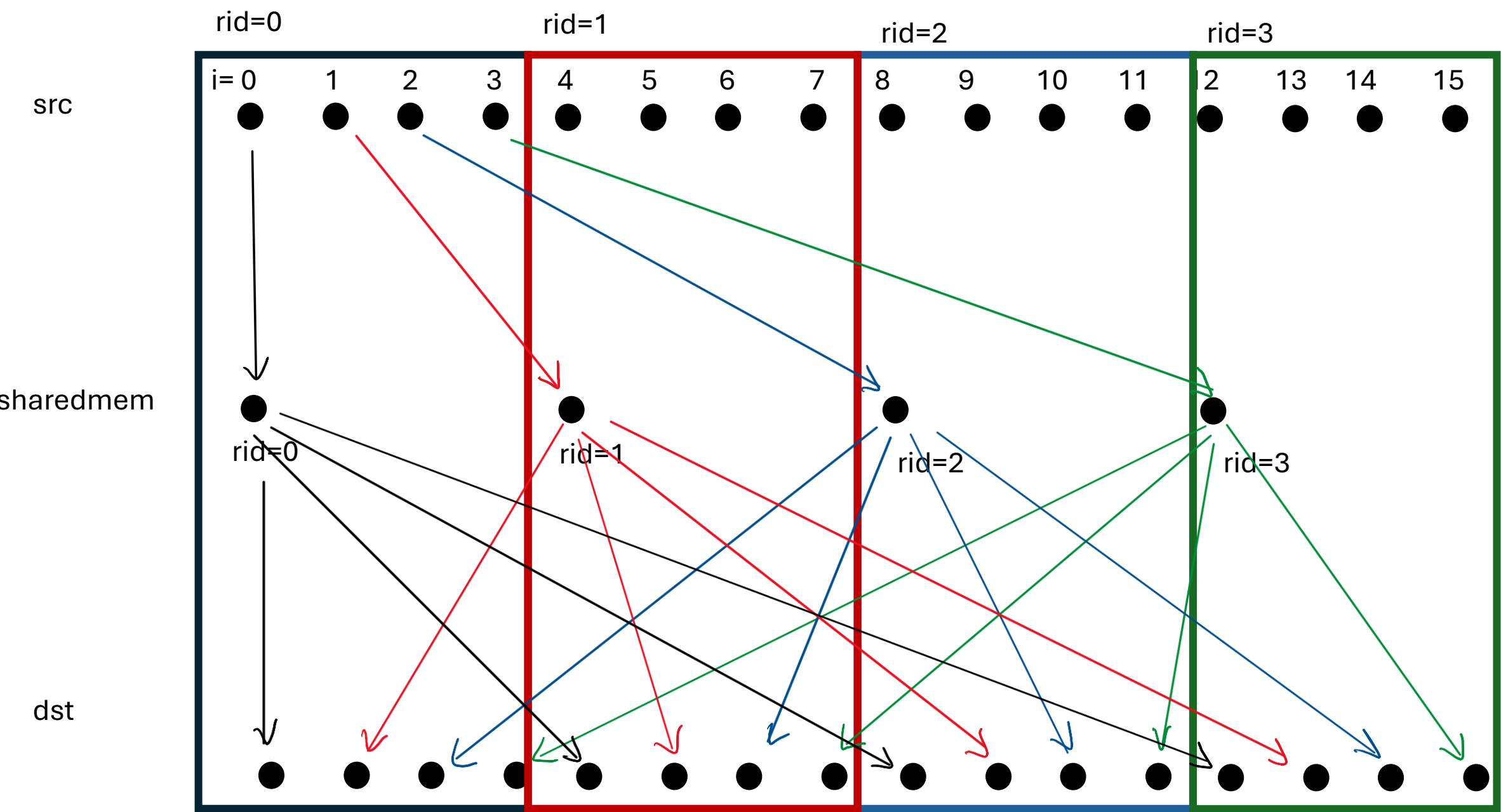# Prob 01: Broadcast

# Prob 02: Reduce

# Prob 03: Scatter

# Prob 04: Gather

# Prob 05: All Reduce

# Prob 06: All Gather

# Prob 07: All to All