

Data Layout Transformation and Data Distribution Figures

CS 5/4473 Parallel Distributed and Network Programming

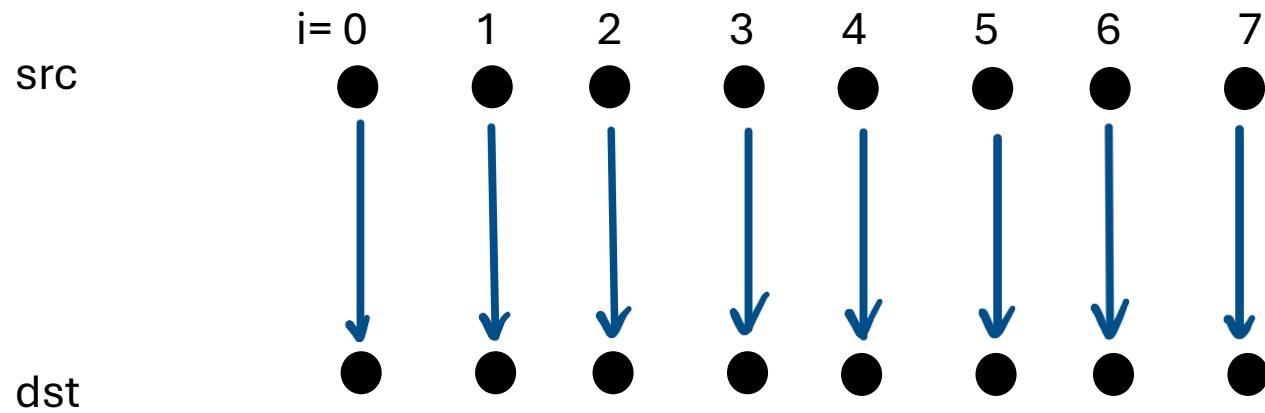
Dr. Richard Veras

Joy Mosisa

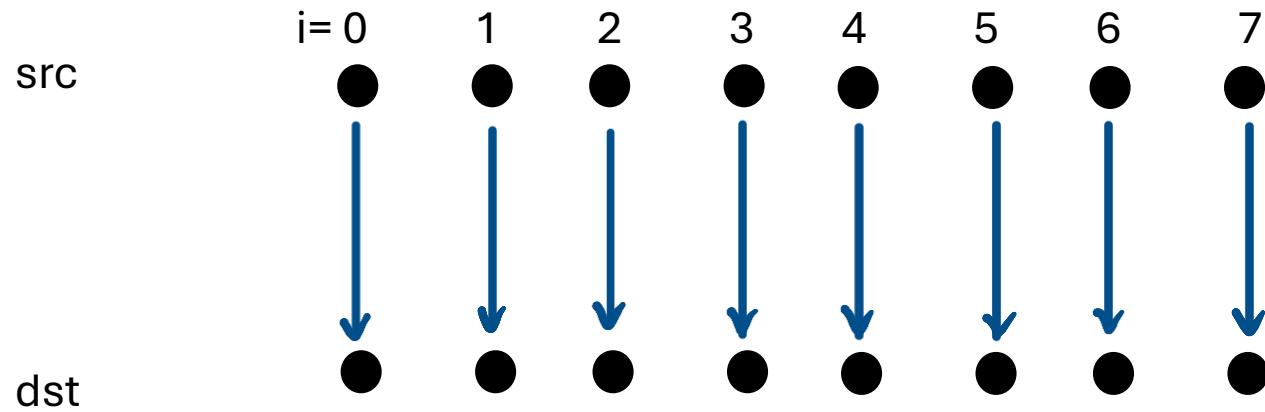
Instructions

- For each problem in the code (XX.Z) draw the data movement (add all of the arrows) between:
 - src --> dst,
 - src --> src_dlt --> dst, Or
 - src --> src_dist --> dst_dist --> dst
- You can use this template, but you are not required to use it.
- The debug output will give you everything you need.

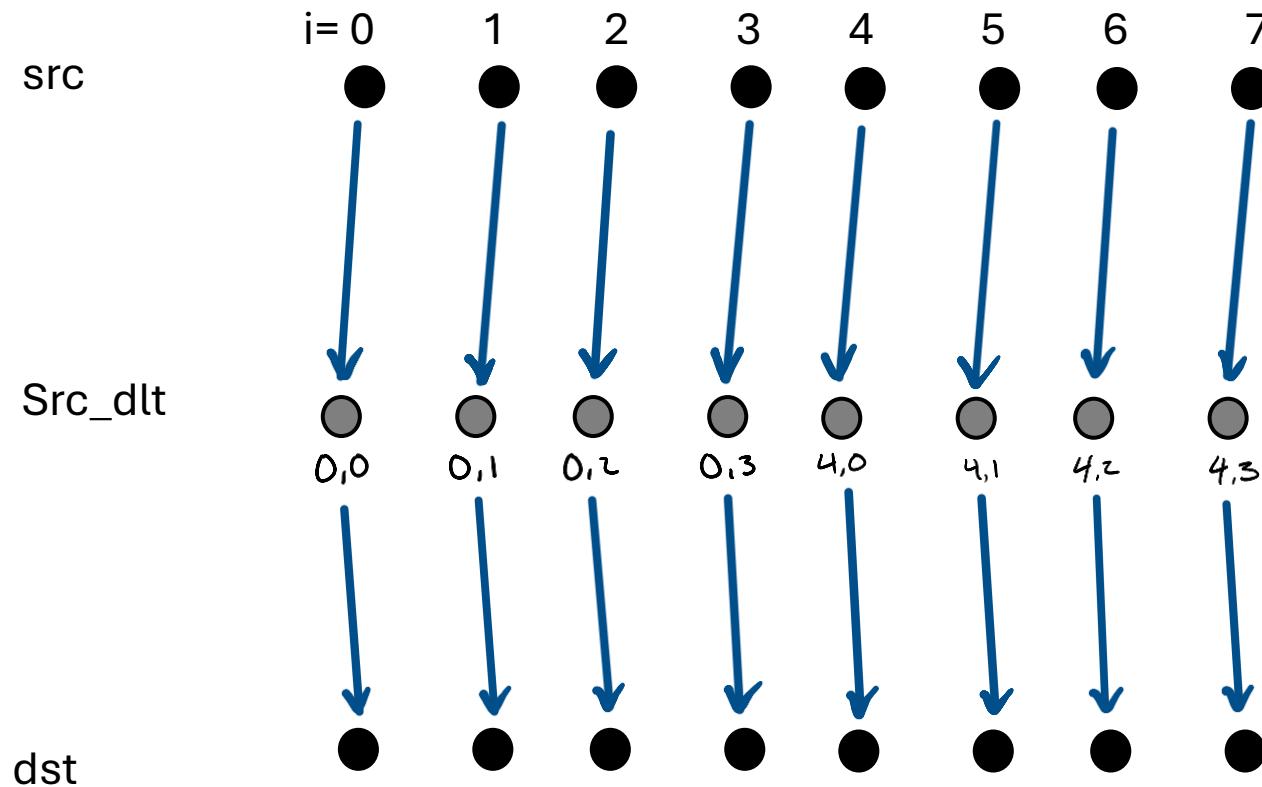
DLT: 01.0 (student_nodlt_2d)



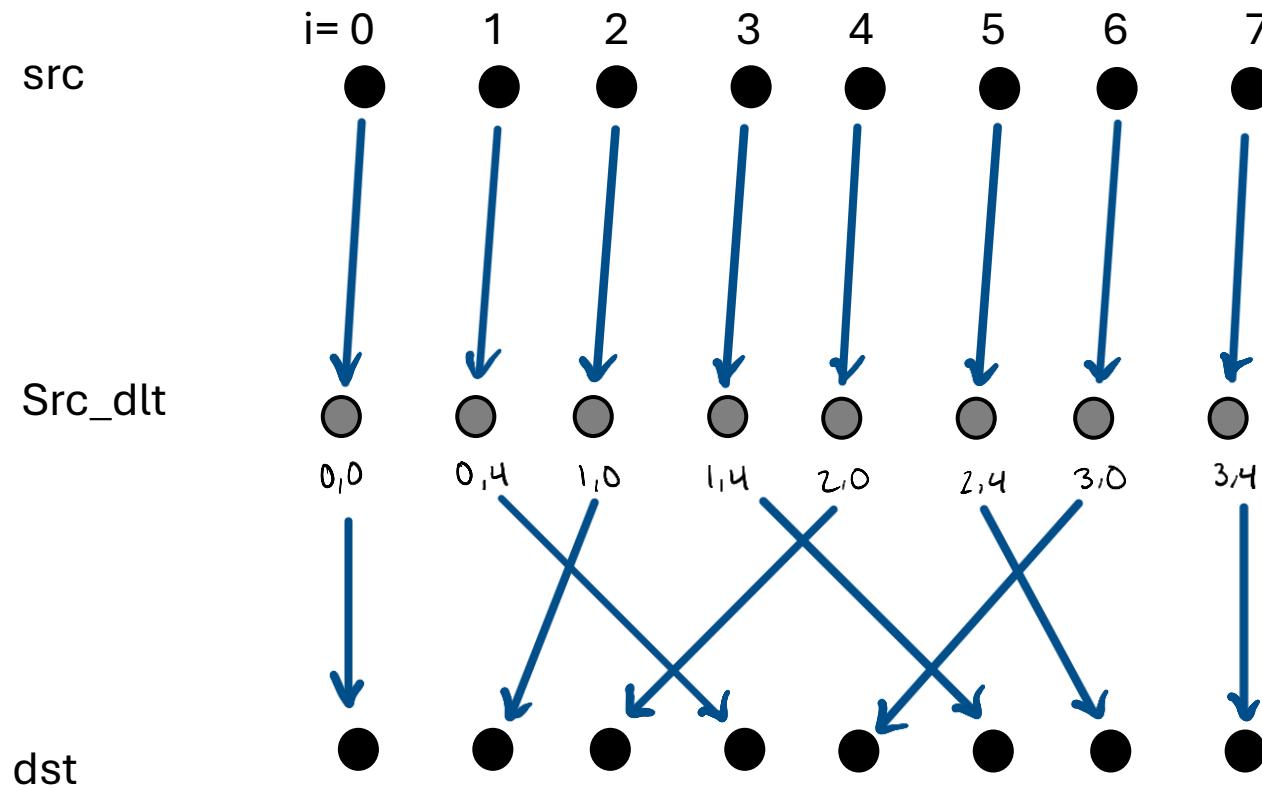
DLT: 01.1 (student_nodlt_2d)



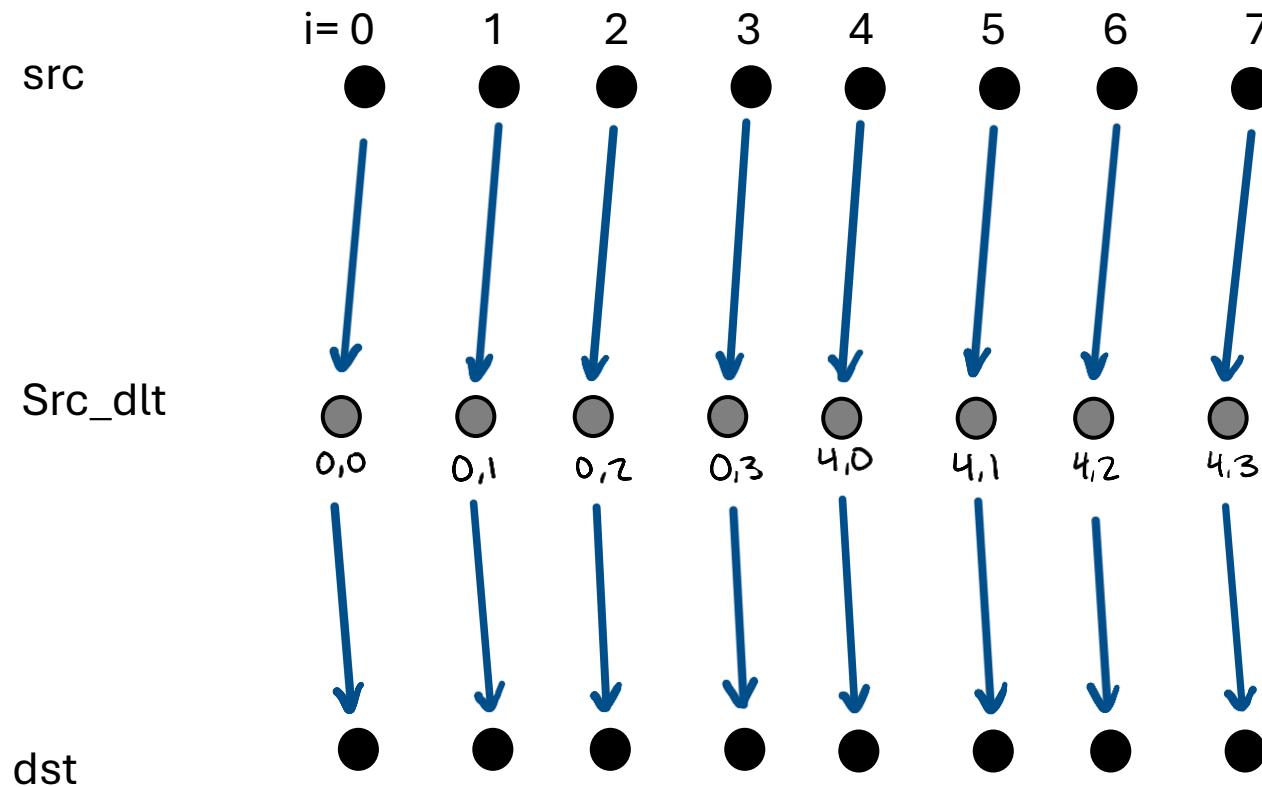
DLT: 02.0 (student_dlt_c_array_2d)



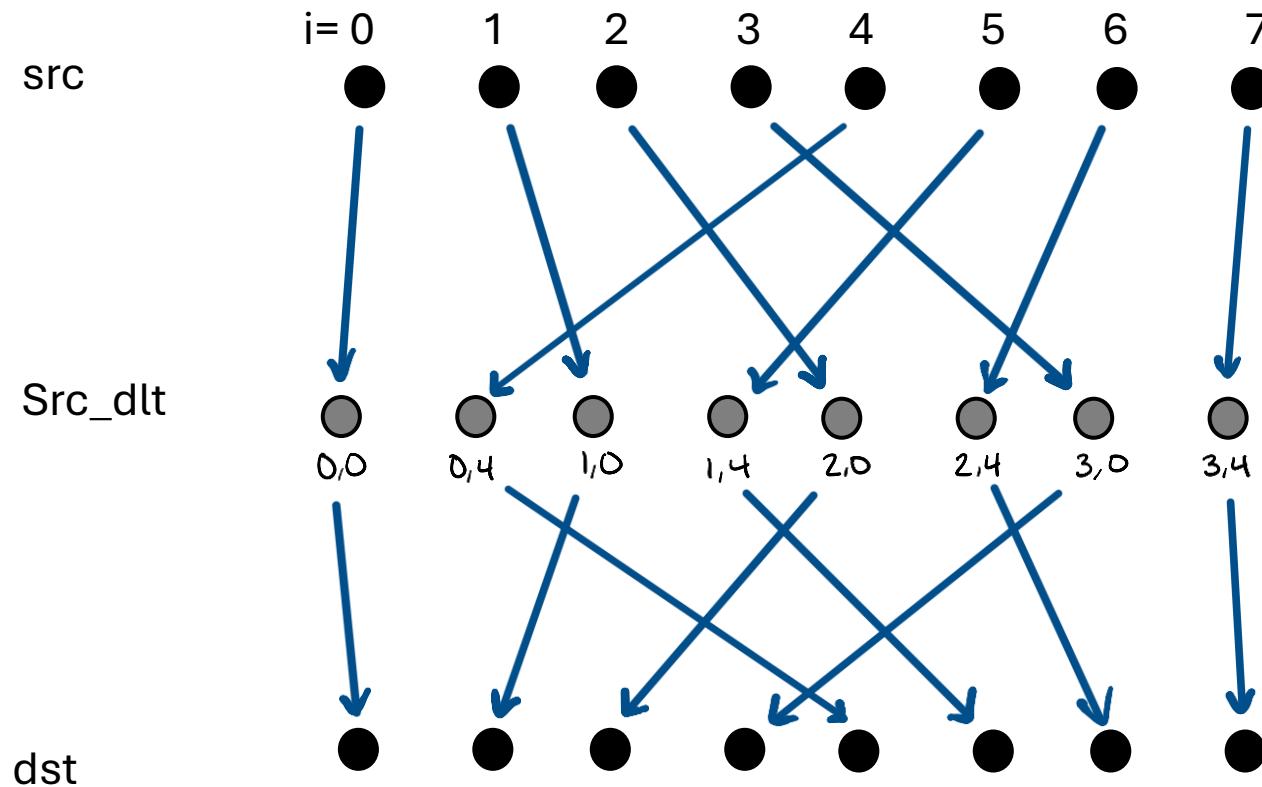
DLT: 02.1 (student_dlt_c_array_2d)



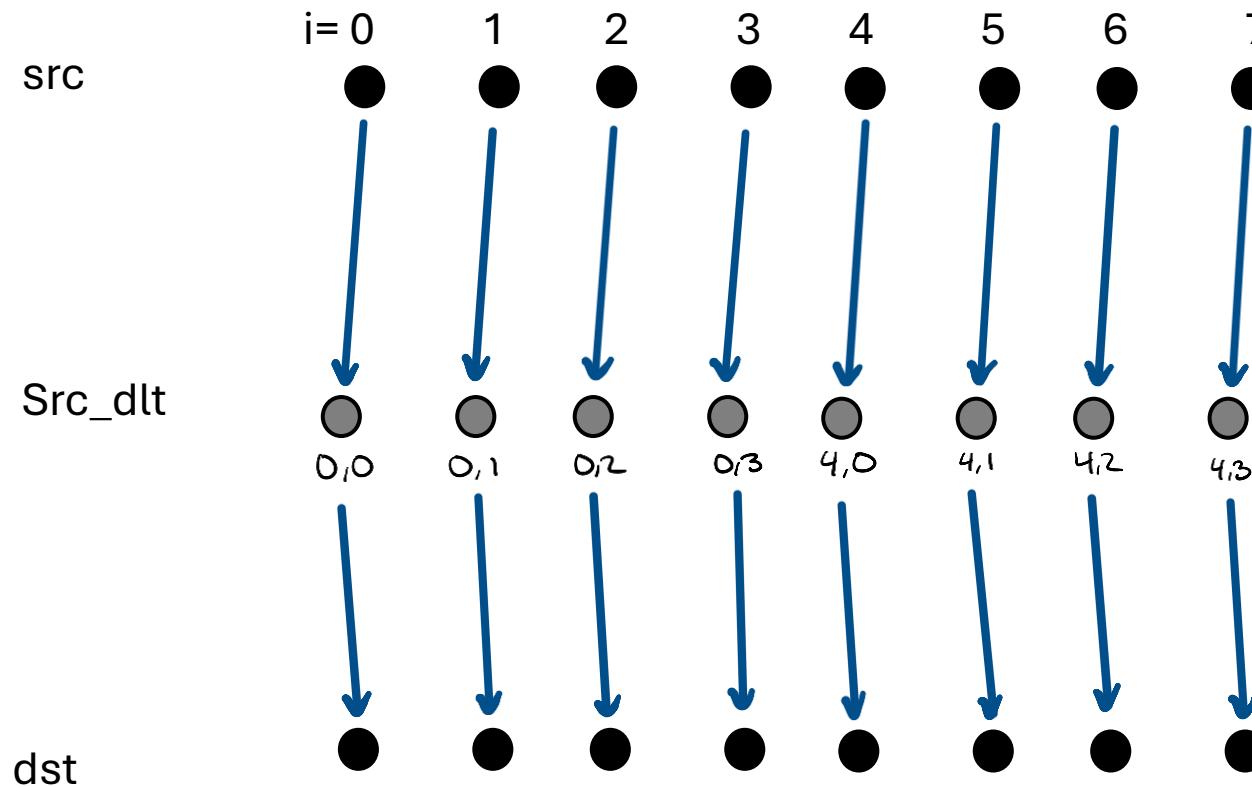
DLT: 03.0 (student_dlt_c_array_linearized_2d)



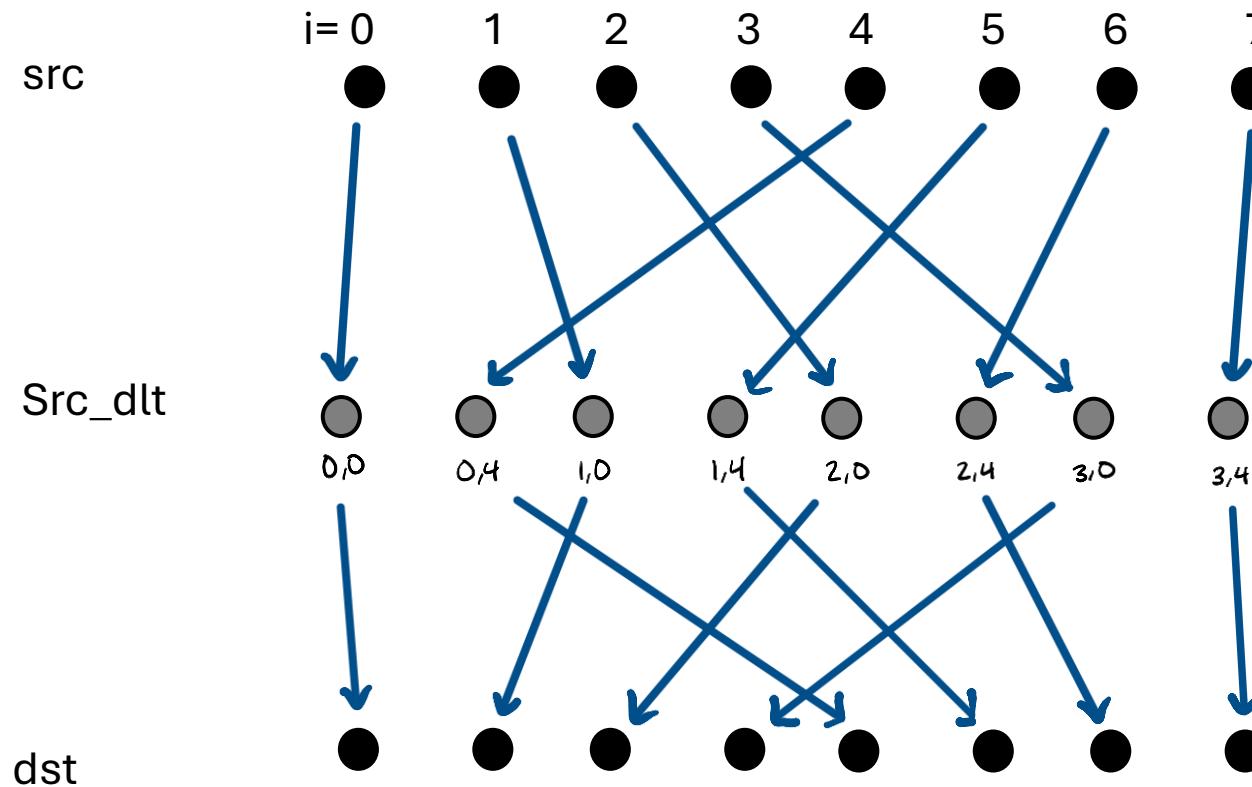
DLT: 03.1 (student_dlt_c_array_linearized_2d)



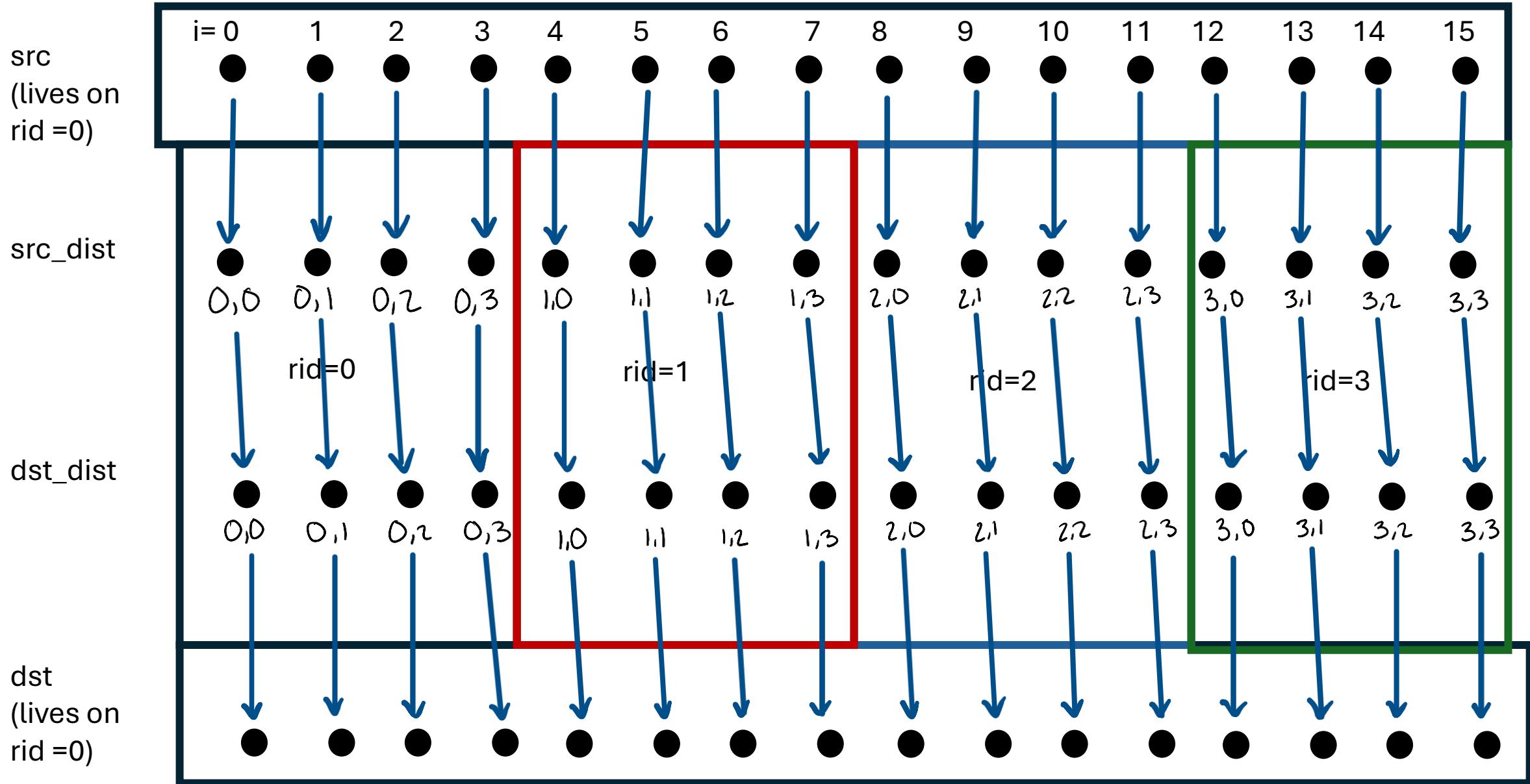
DLT: 04.0 (student_dlt_inc_2d)



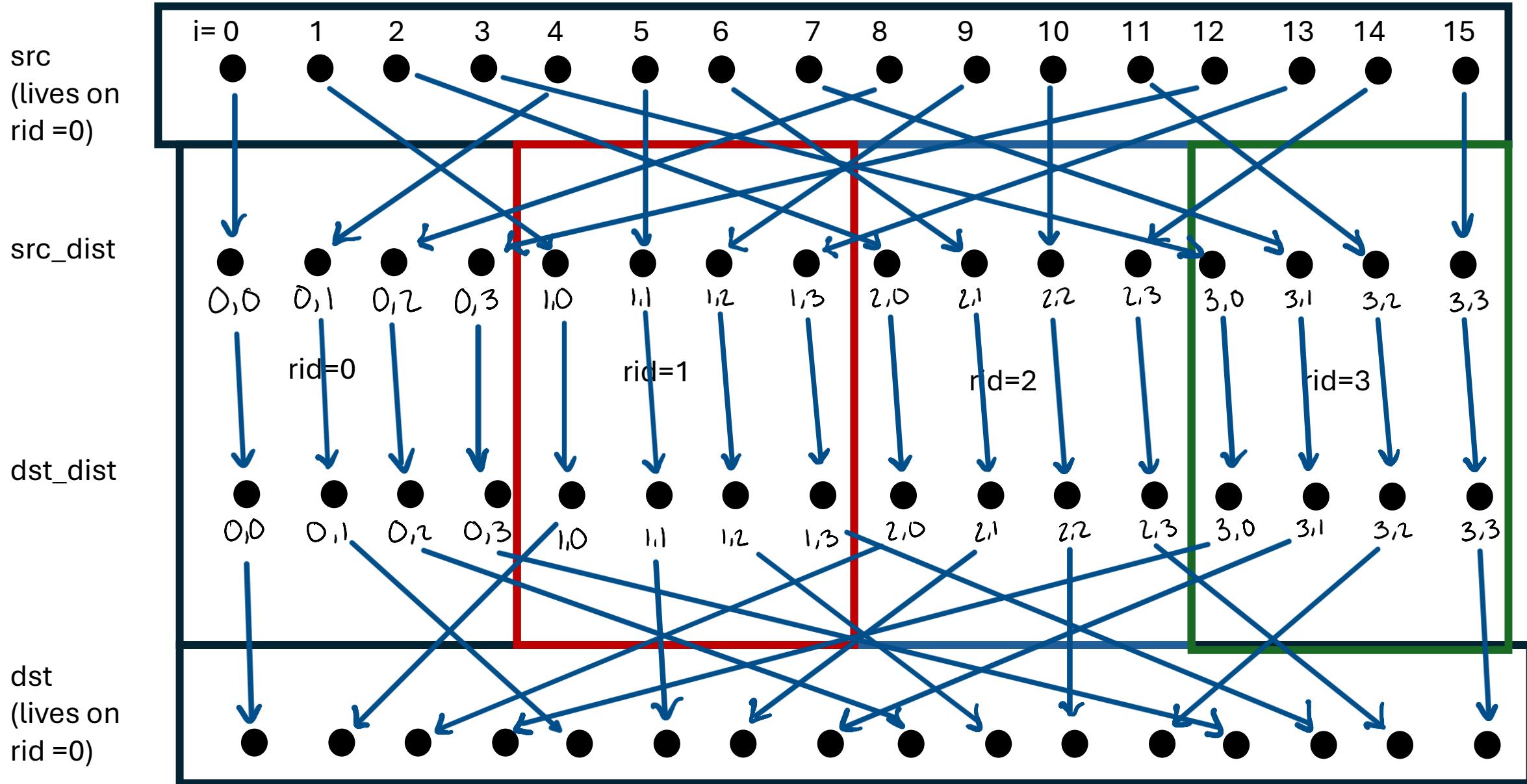
DLT: 04.1 (student_dlt_inc_2d)



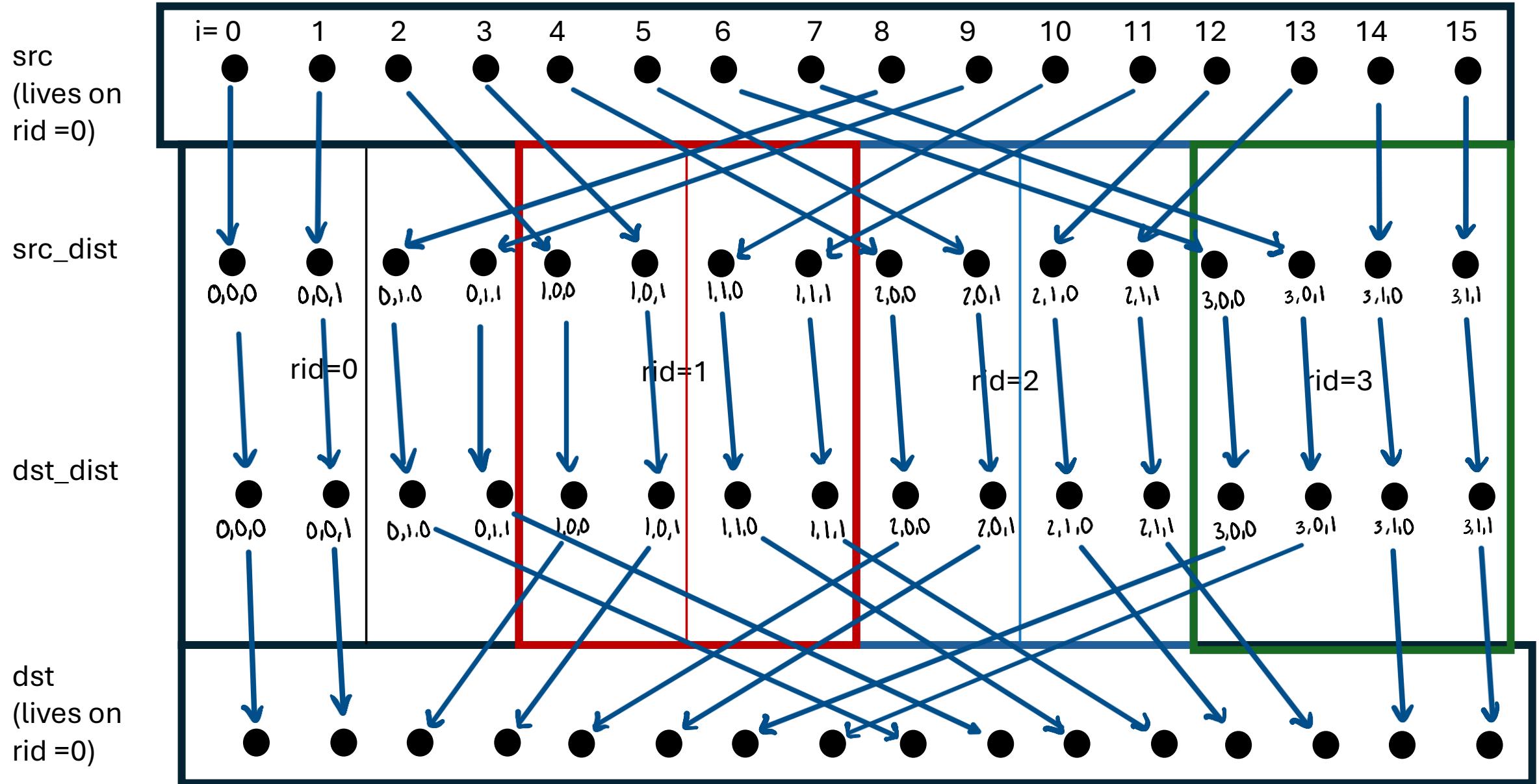
DIST: 05.0 (student_dist_block_1d)



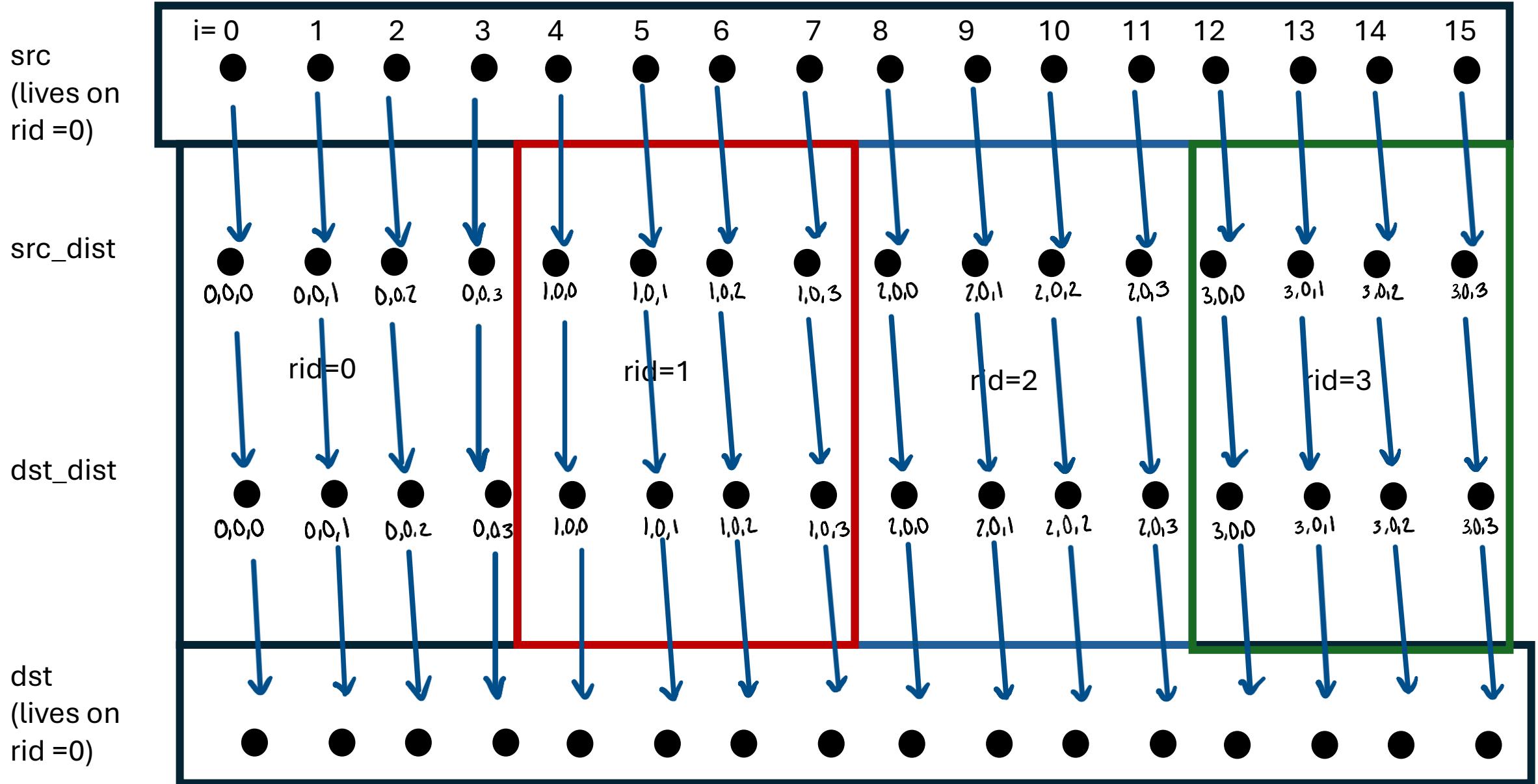
DIST: 06.0 (student_dist_cyclic_1d)



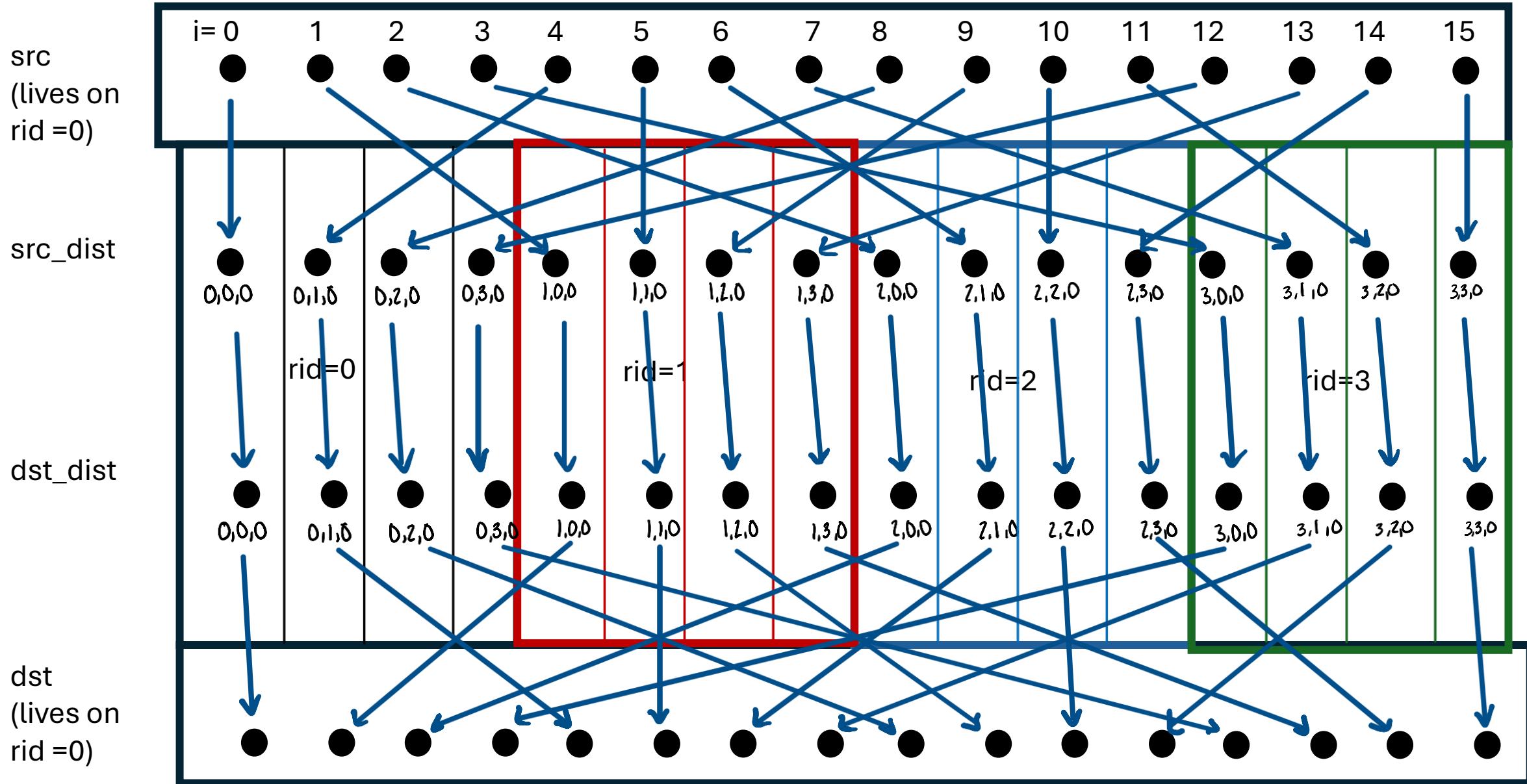
DIST: 07.0 (student_dist_block_cyclic_1d blk=2)



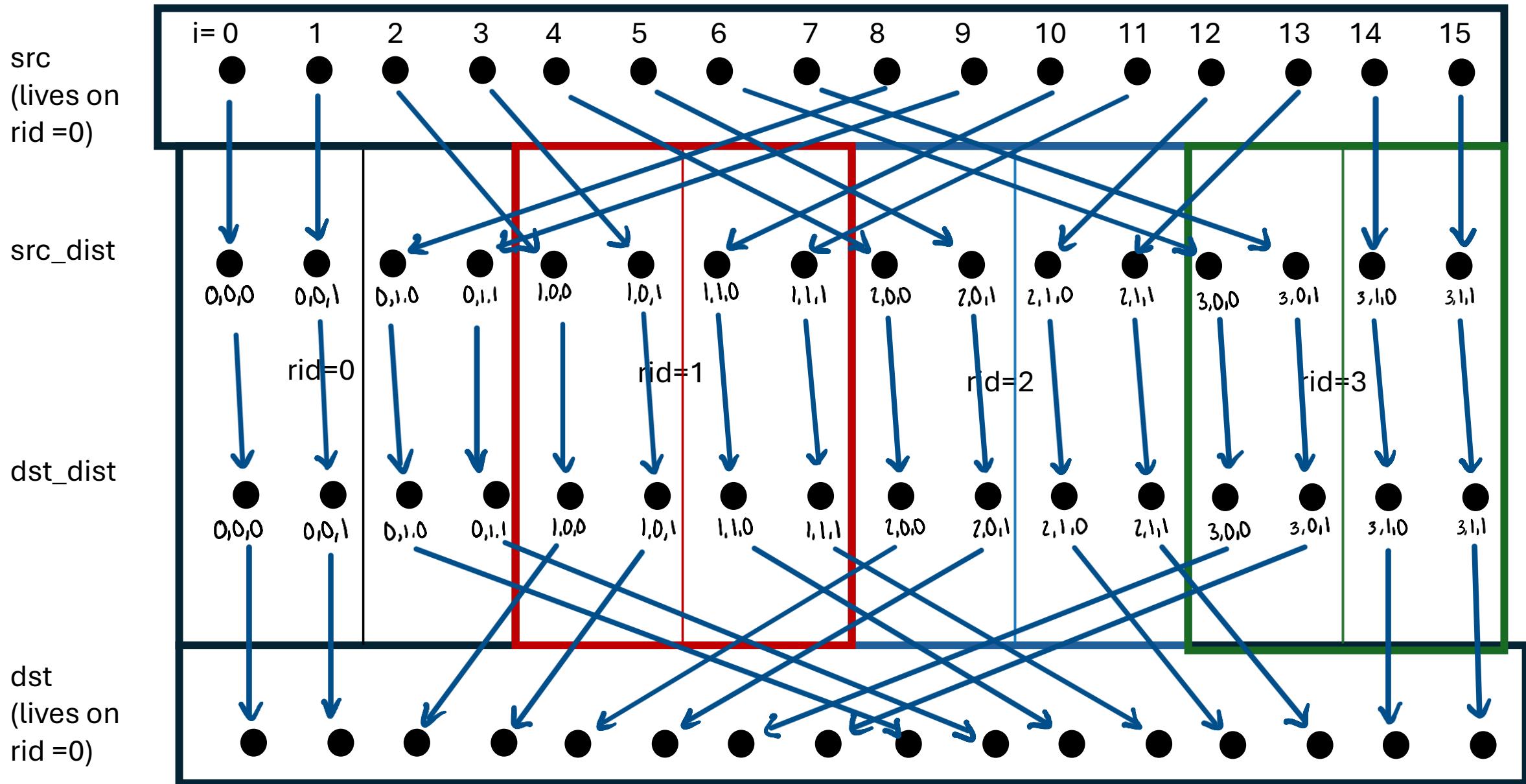
DIST: 07.1 (student_dist_block_cyclic_1d blk=n/num_ranks)



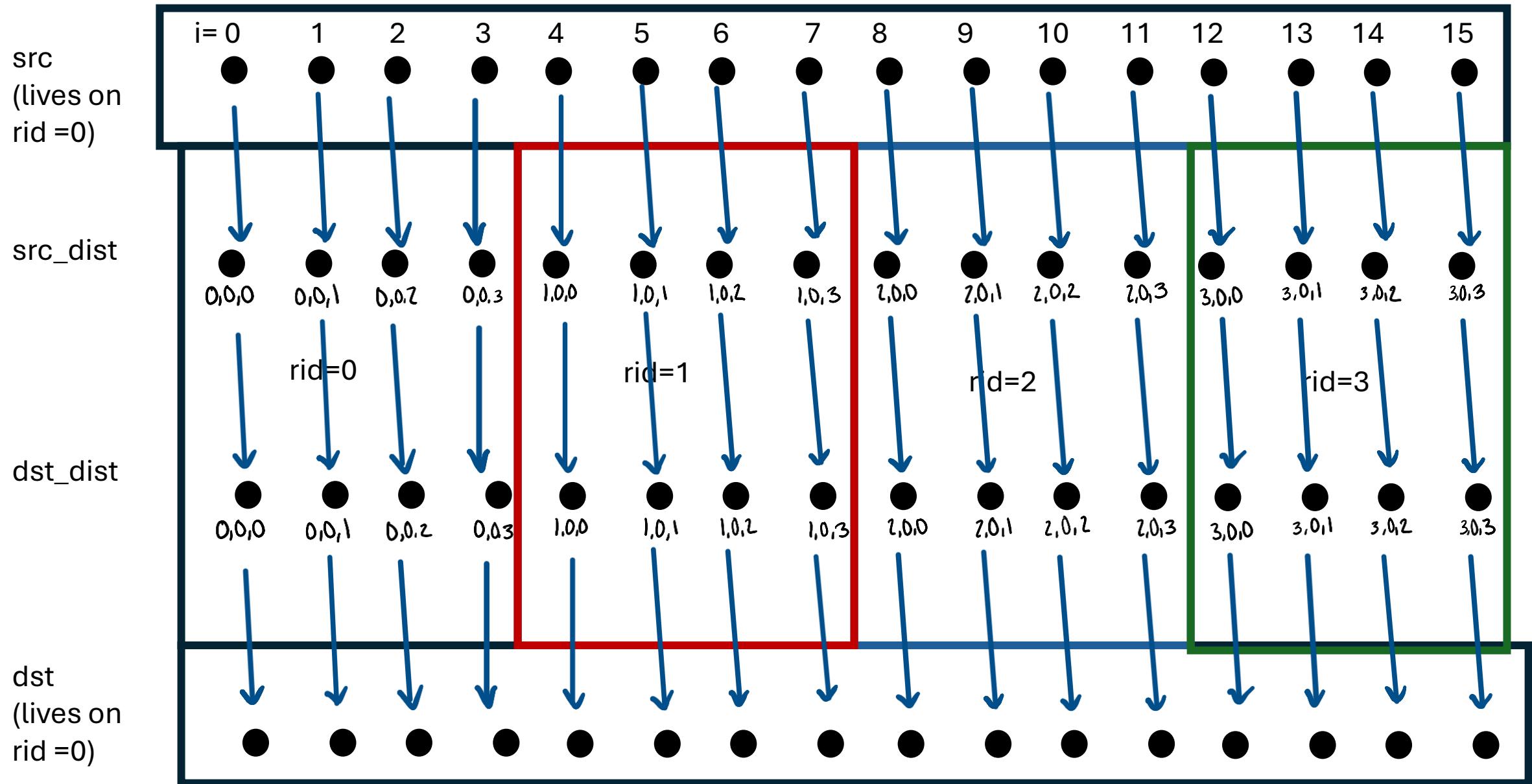
DIST: 07.2 (student_dist_block_cyclic_1d blk=1)



DIST: 08.0 (student_dist_block_cyclic_1d_the_hard_one blk=2)



DIST: 08.1 (student_dist_block_cyclic_1d_the_hard_one blk=n/num_ranks)



DIST: 08.2 (student_dist_block_cyclic_1d_the_hard_one blk=1)

