

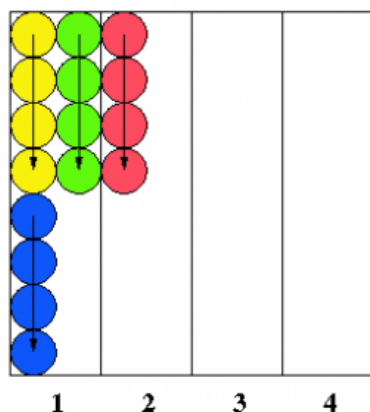
Q/A Exercise 14

ANSWERS:

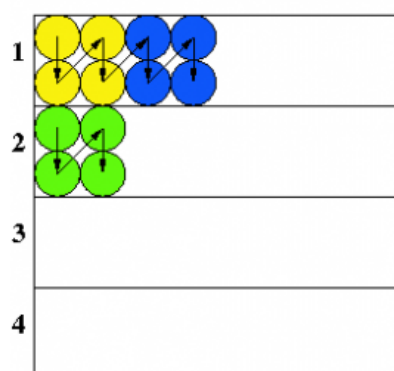
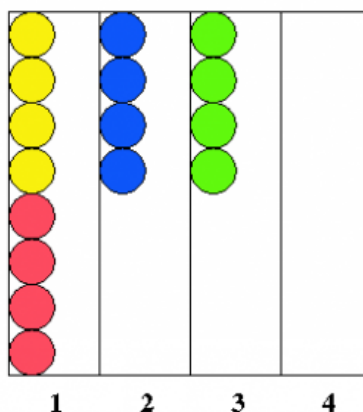
Q- Why choosing the distribution order (rows / columns) of the matrix is important?

A- Let's consider the Fortran case with matrix stored over the processes first by columns then by rows. Note how MPI_ALLTOALL works: the j th block sent from process i is received by process j and is placed in the i th block of recvbuf.

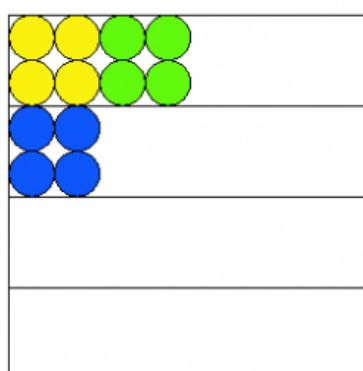
FORTTRAN



WRONG



RIGHT



[< Solution 14](#)

[up](#)

[Exercise 15 >](#)

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