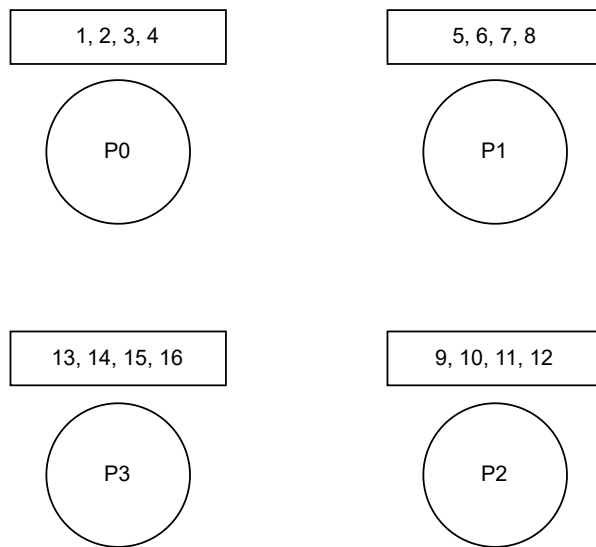


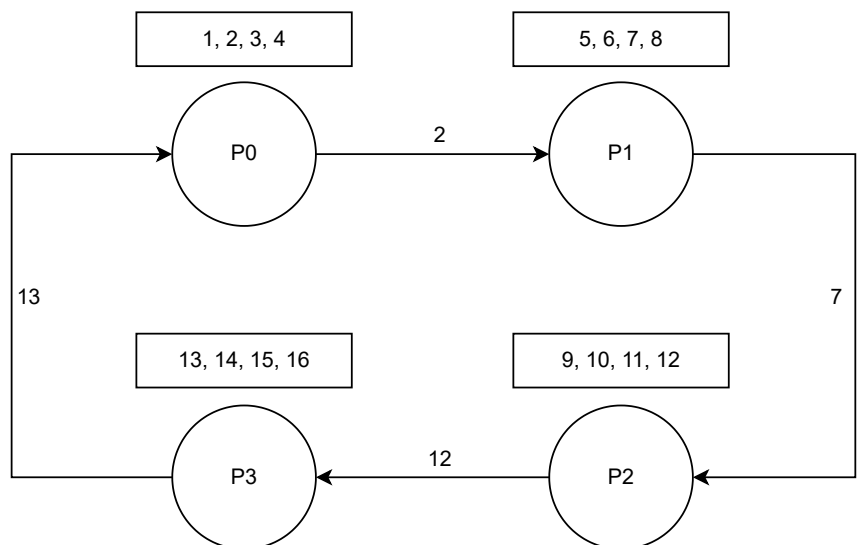
Ring All-Reduce [SUM]

1° Step: Pairwise-Exchange Reduce-Scatter [SUM]

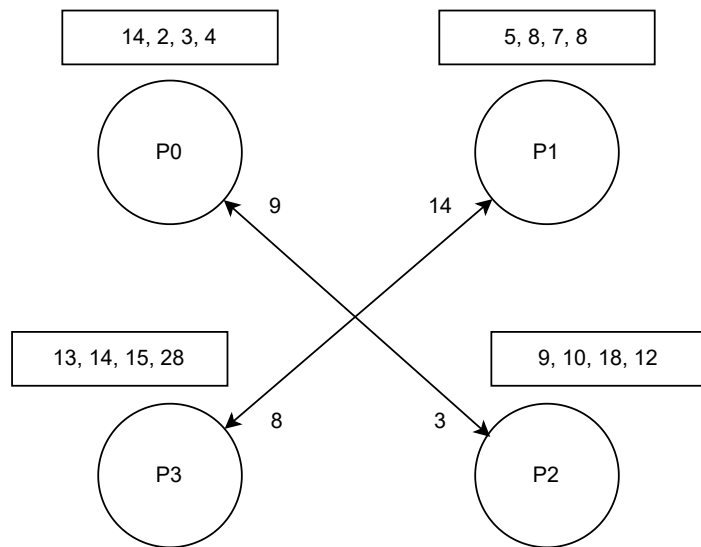
Initial Setup



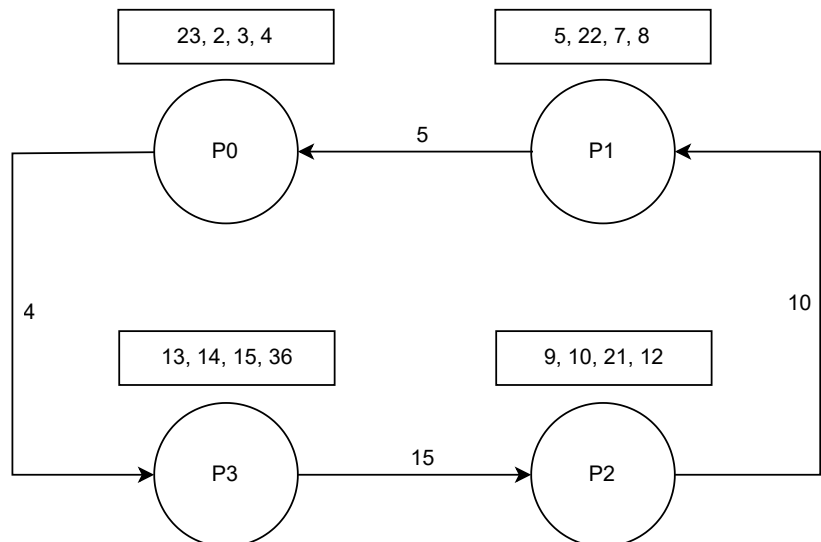
* i = 1



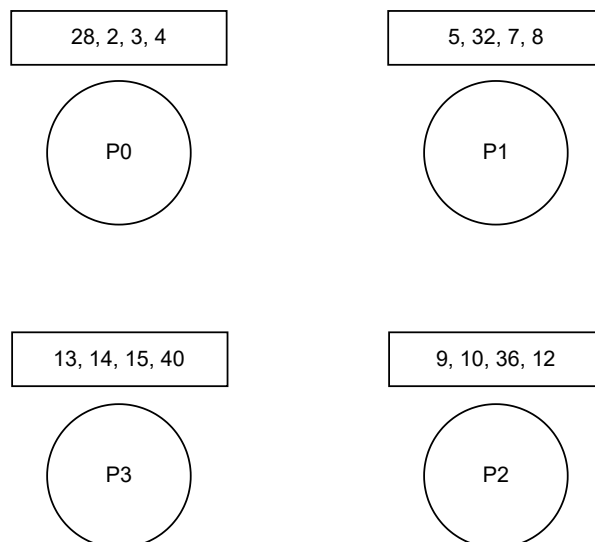
* i = 2



* i = 3

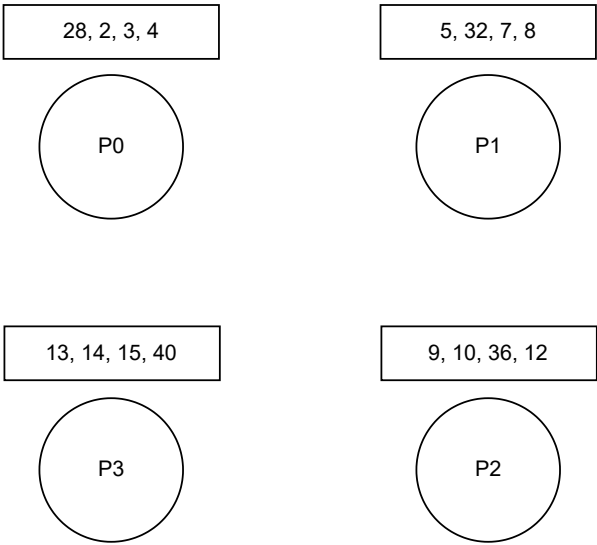


Result

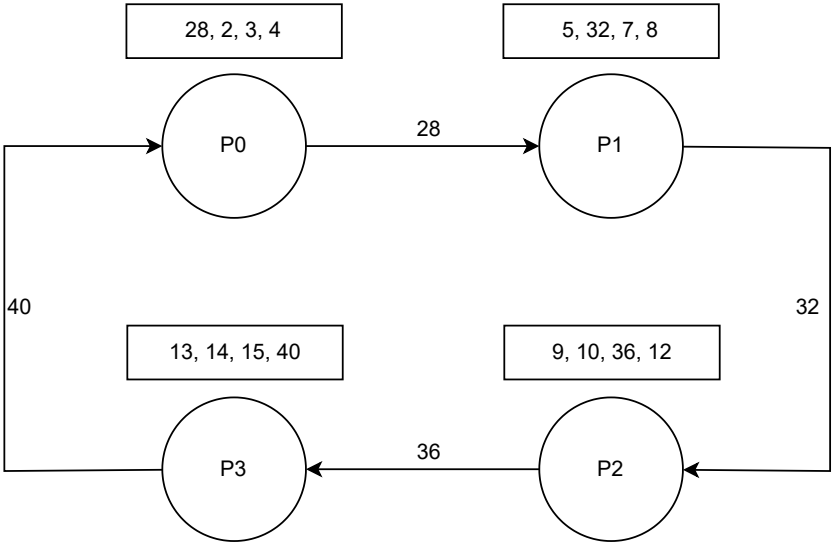


2° Step: Ring Allgather

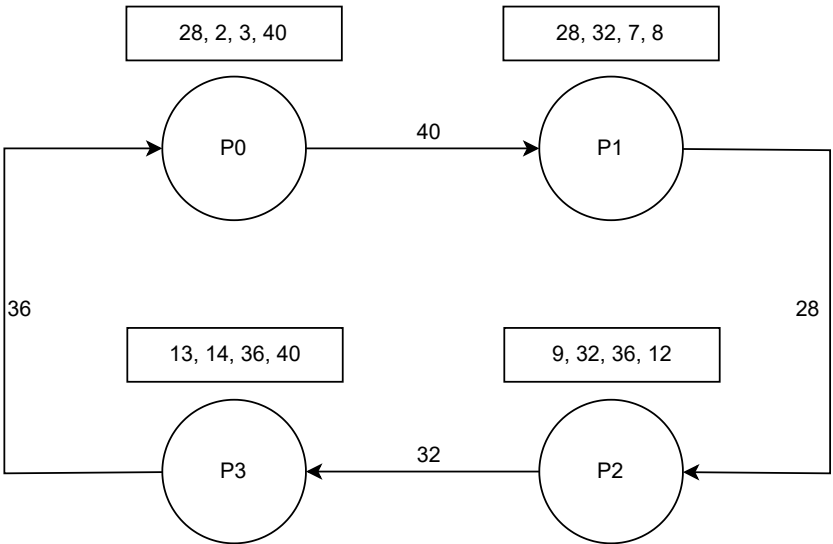
Initial Setup



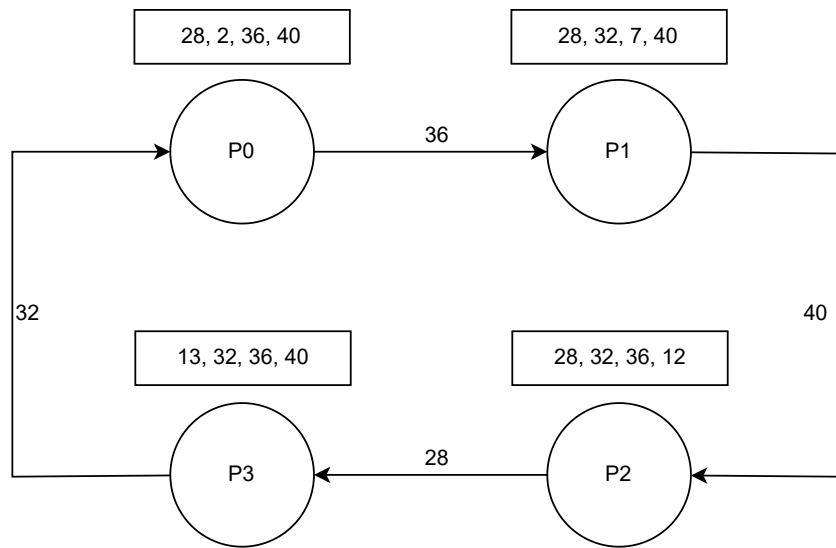
i = 1



i = 2



i = 3



Result

