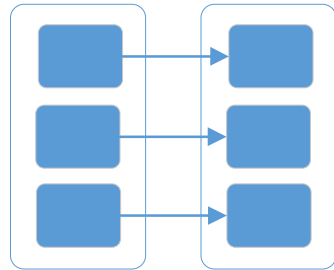
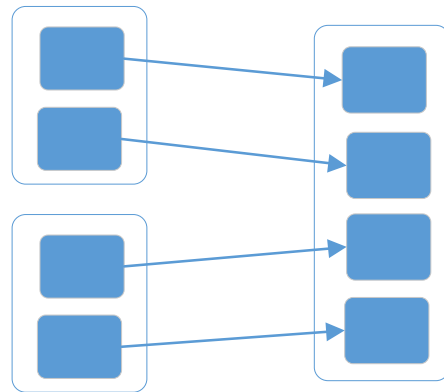


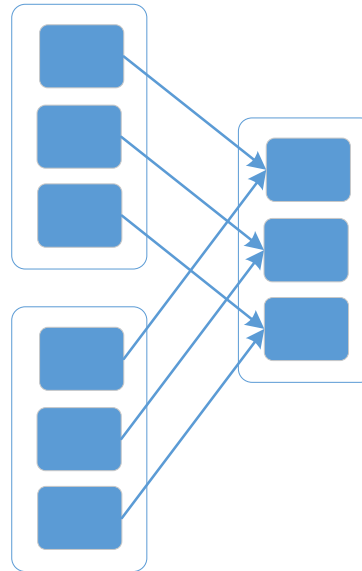
### Narrow Dependencies:



Map, filter

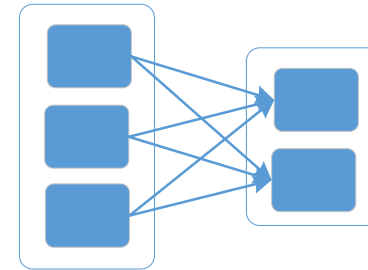


union

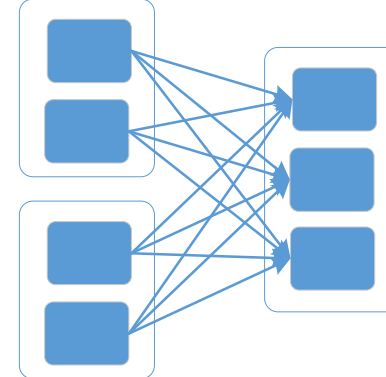


Join with inputs  
co-partitioned

### Wide Dependencies:



groupByKey



Join with inputs not  
co-partitioned