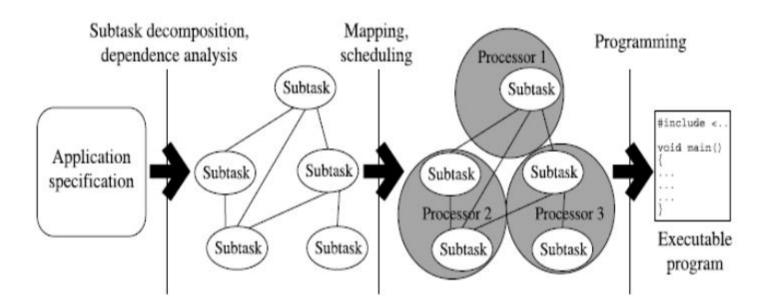
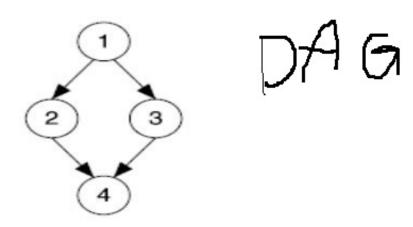
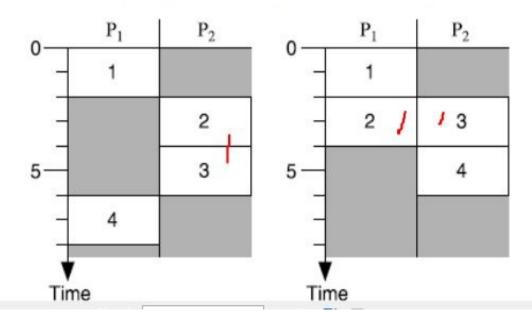
## Parallel programming—process of parallelization



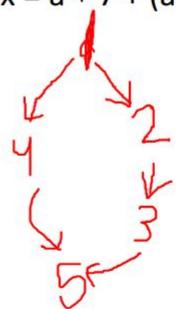


Example of task graph representing a small program segment.

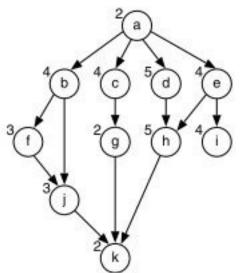


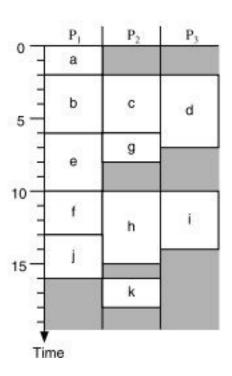


- Example 2 Program for x = a \* 7 + (a \* 5 + 2)
- 1: a = 2
- 2: v = a \* 5
- 3: u = v + 2
- 4: v = a \* 7
- 5: x = u + v

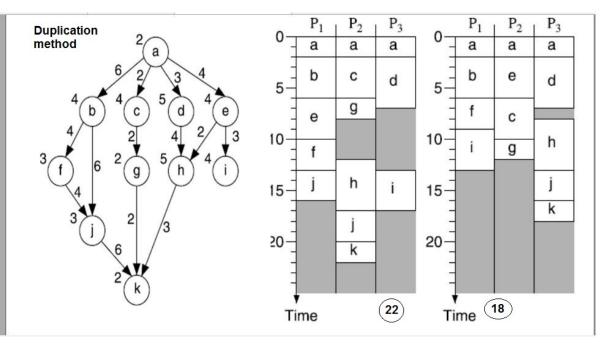


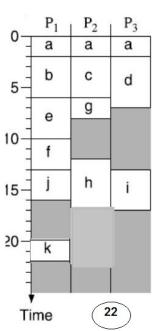
Without Communication cost <sup>2</sup>(a)

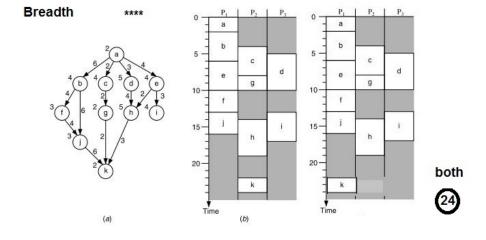


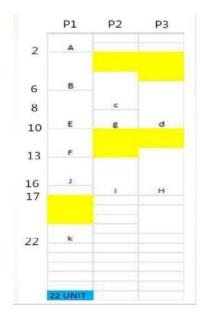


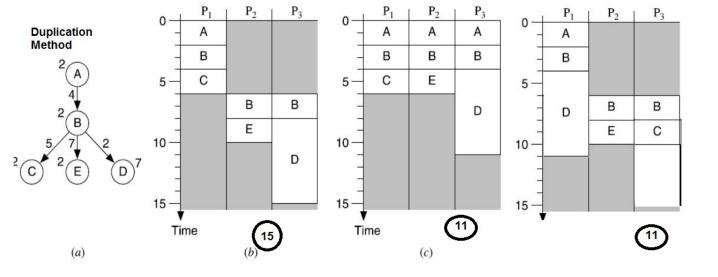
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## 4- CLUSTRING

## Clustering

 Different ways to cluster a task graph

