

Nom 1:

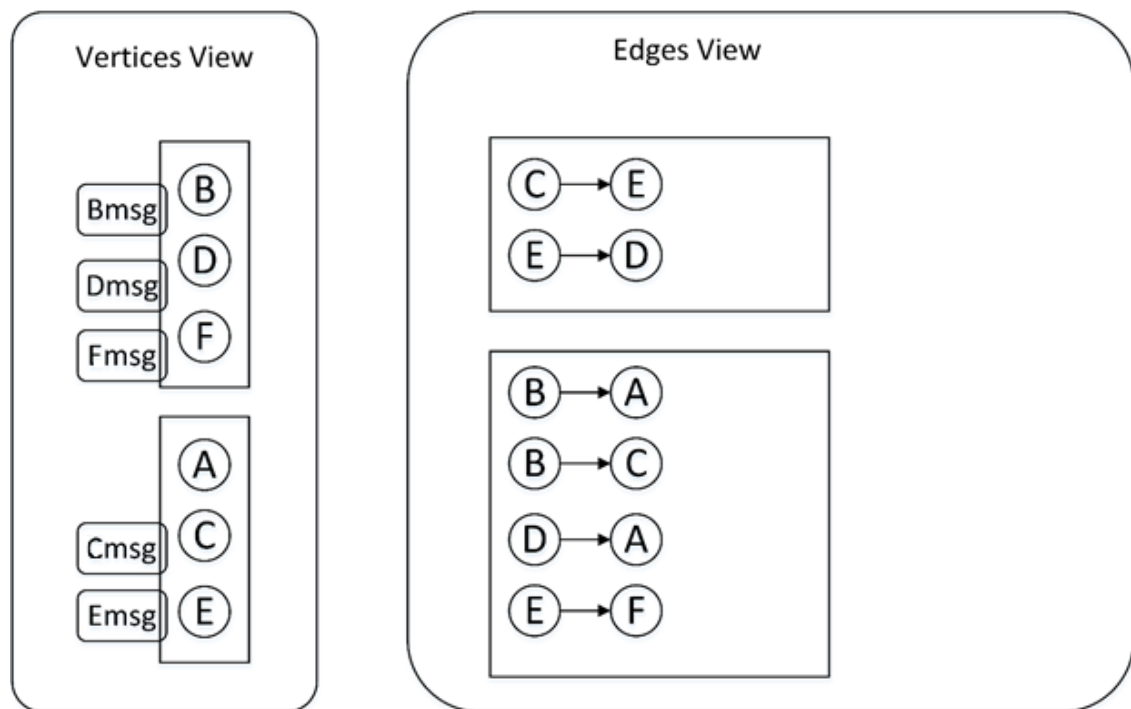
Nom 2:

DISTRIBUTED GRAPH PROCESSING

Consider the vertex and edge views of a distributed graph and their corresponding partitions depicted below. Taking into account the incoming messages, you must specify:

- The communication between vertex partitions and edge partitions generated in this superstep.
- Messages produced at each edge partition.
- The post-processing to scatter these messages to the vertex partitions.

Draw your solution in the figure below.



For this specific execution, **justify** if the superstep throughput compensates the overhead introduced by the synchronization barriers. In other words, is it justified to use a synchronized TLAV for this problem?