



- Adders add rows and mark the info matrix **cell by cell**. They wait on the writing end as only one writer can write to the sumX_Y matrix.
- Multipliers wait for the rows and columns to be available. After that, they are the only writers to the final matrix.
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- Therefore, **four** semaphores:
 - One for adder threads, as they should write one by one. **(x2)**
 - One for multipliers. They should wait for their rows and columns to emerge.
 - Another one for multipliers. They should write to the final matrix one by one.