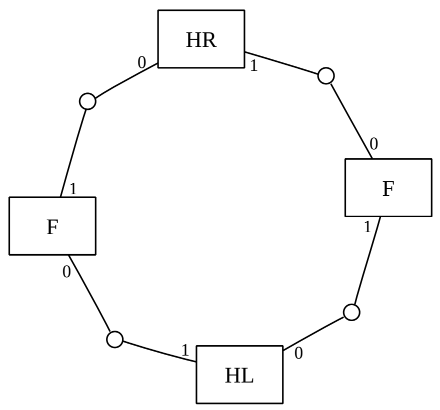
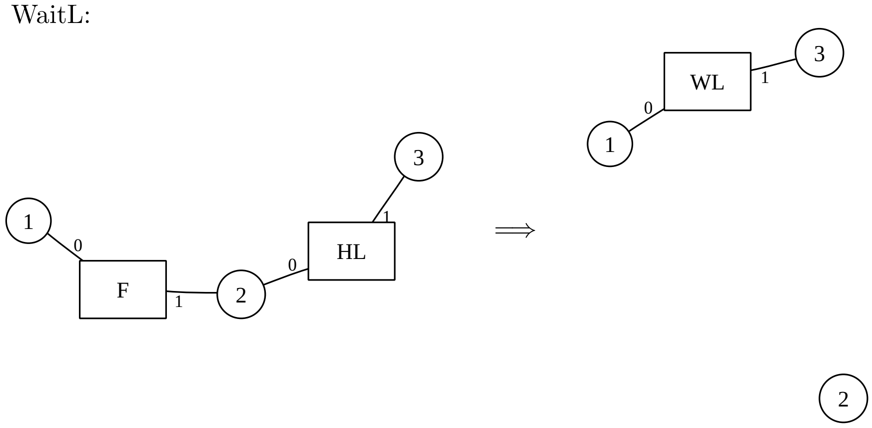
Initial graph:



WaitL:



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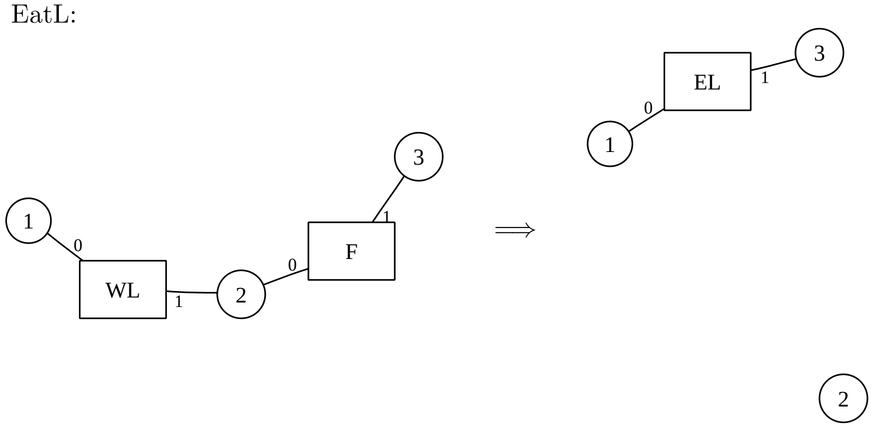
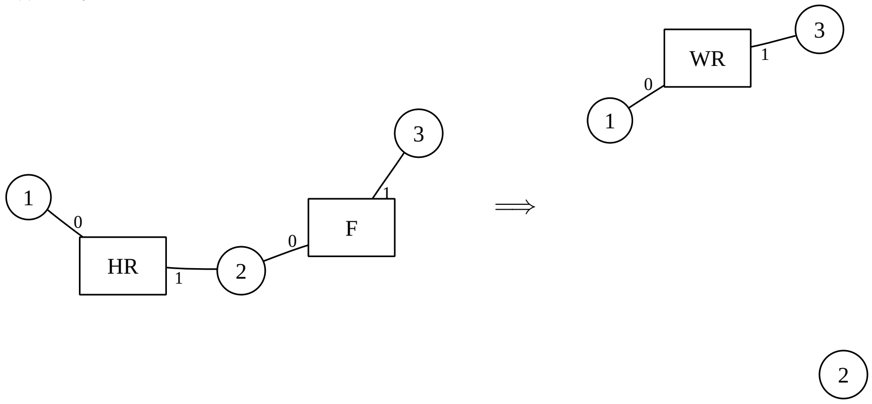


WaitR:



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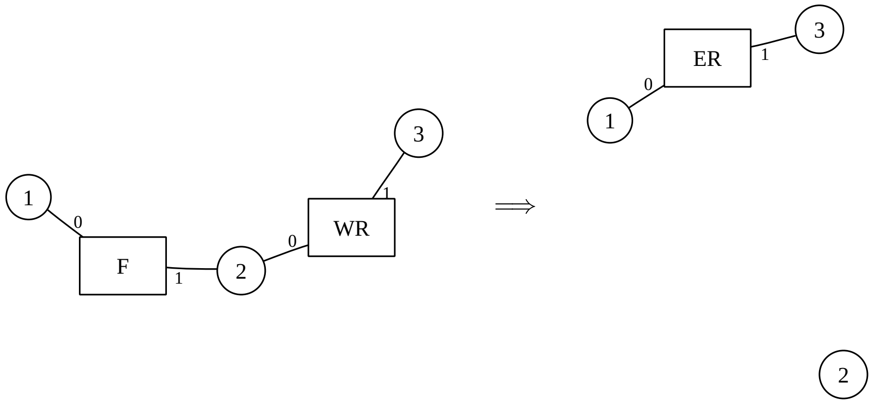
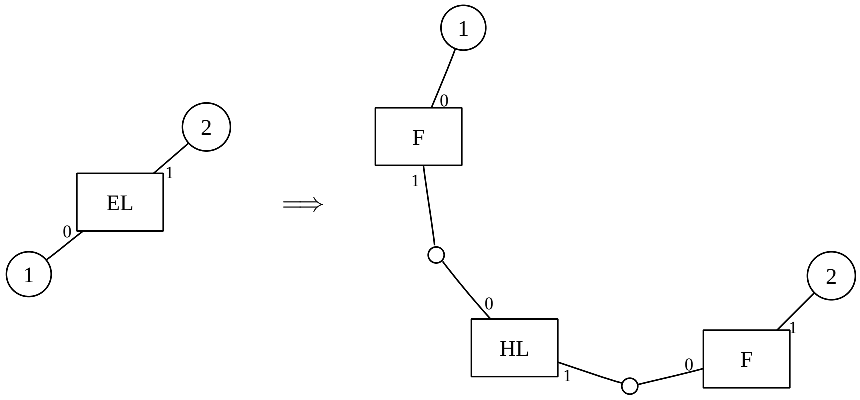


HungryL:



HungryR: