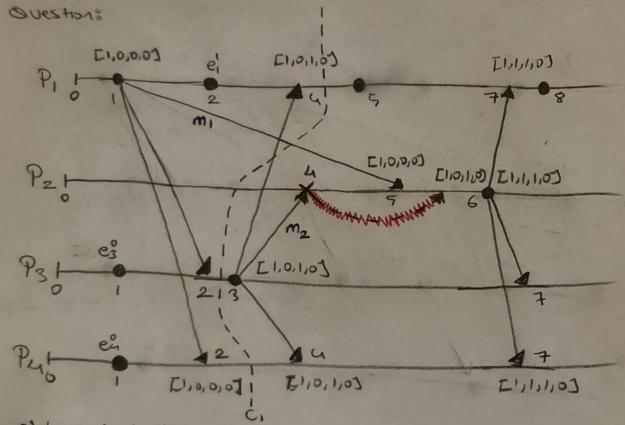
## Pleage of Honor

- \* I pledge on my honor that I will not give, recieve or use any unauthorized assistance on the online assignments
- . I pleage to obey rules for taking the online assignments of COMPUIS/515.

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- after M, because m2 is sent by Pz after it recieved and delivered m1. At P2, we see that using Lamport tx. m2 is delivered before m1, so Lamport is not sufficient to capture caucality.
- b) For the same case, we see that when Pz recieves mz it sees that Pz's own VC. is IO,0,0,0,0 but message has II,0,1,01, so Pz knows it is missing a message (from P1 in this case) so it does not deliver. After recieving Pi's message m1, Pz delivers m2. which was kept in a buffer.
- c) The frontier of out C, is:  $\langle e_1^2, \varnothing, e_3^2, e_4^2 \rangle$ .

  It is inconsistent because  $e_1^2$  is reciept of a message emitted by  $e_3^2$ , which is not in this out.