



- Each one of the sources (1,2,3 and 4) must arrival 01 box every 15 seconds.
- Conveyor 1, 2, 3 and 4 must not batch more than 01 box.
- Line A: Picking_1 must be capable of performing batching of boxes in this sequence: 2-2-1-1-1 and after this, the sequence must repeat until infite for this line.
- Line B: Picking_2 must be capable of performing batching of boxes in this sequence: 2-2-1-1-1 and after this, the sequence must repeat until infite for this line.
- Line C: Picking_3 must be capable of performing batching of boxes in this sequence: 2-2 and after this, the sequence must repeat until infite for this line.
- Line D: Picking_4 must be capable of performing batching of boxes in this sequence: 2-1-1-1-2 and after this, the sequence must repeat until infite for this line.
- Robot must take batches of boxes from Picking_1, Picking_2, Picking_3 and Picking 4 and and take each batch to Queue1. The only rule for the robot to take bathces is that the batch on each Picking conveyor is already set. There is no any preference for any line. For example: If batch in Picking_1 al already set, the robot will take that batch, and if Picking_2 is set while the robot is working with Picking_1, Pikcing_2 will have to wait.
- Queue1 can batch upto 1000 boxes.