1. Create root vertex
2. Add root vertex to queue
3. While queue is not empty
   1. Take vertex off queue (V0)
   2. Parse its ID string ID[2]
   3. Set container-a curr\_volume to first element
   4. Set container-b current volume to second element
   5. If container-a is not full
      1. Fill container-a
      2. Create a vertex with container-a volume and V0.ID[1]
      3. Add an edge into the graph from V0 to new vertex
      4. Add new vertex to queue
   6. If container-b is not full
      1. Fill container-b
      2. Create a vertex with V0.ID[0] and container-b volume
      3. Add an edge into the graph from V0 to the new vertex
      4. Add new vertex to queue
   7. If canPour from A to B
      1. Do something
   8. If canPour from B to A
      1. Do something