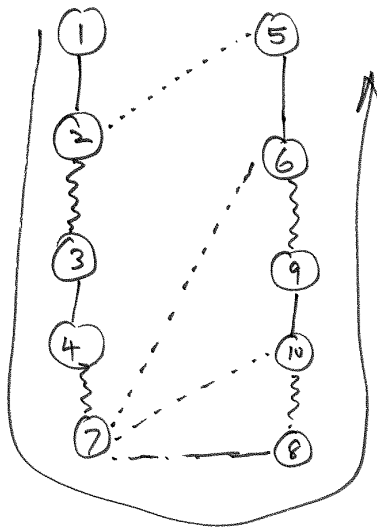
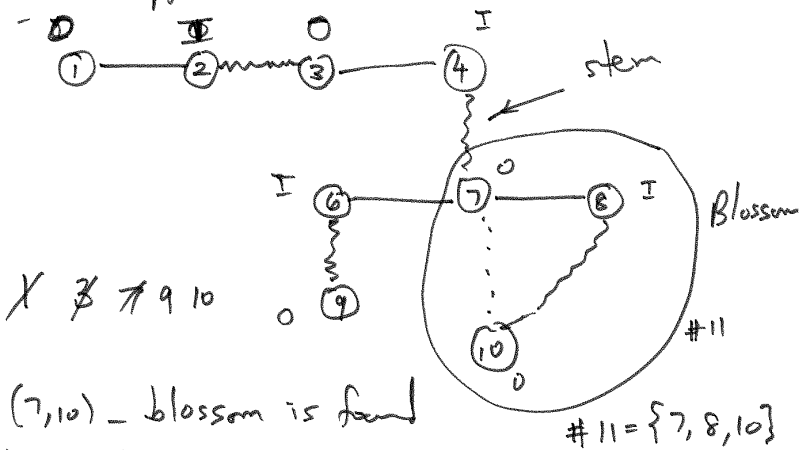


Parallel approach:

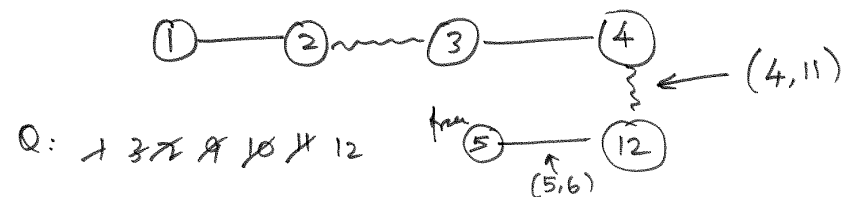
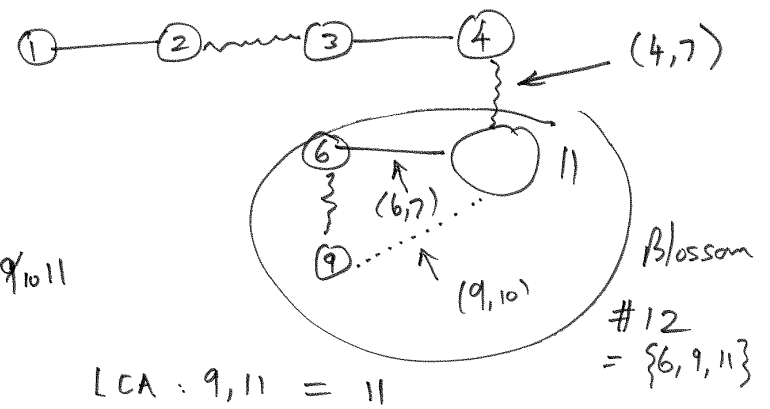


Q: 1 8 7 9 7 8

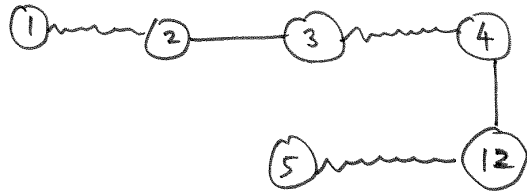
1. Sequential approach:



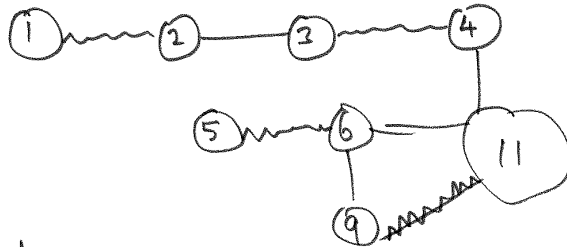
Edge (7,10) - blossom is found
 $LCA(7,10) = 7$



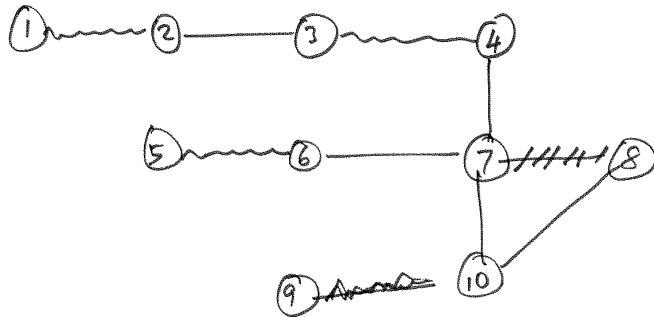
Augmenting path is found
Update M:



Expand 12:



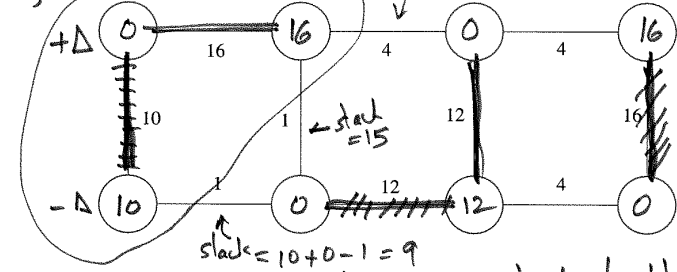
Expand 11:



Output:

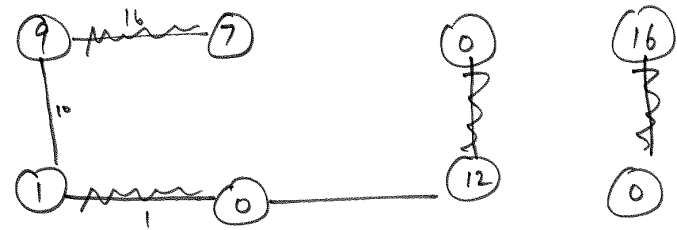
$$M = (1, 2) (3, 4) (5, 6) (7, 8) (9, 10)$$

One extra outer nodes
vs inner nodes



Zero graph = set of tight edges
 $e = (u, v): L(u) + L(v) = w(e)$.

Find Min slack: $\{12, 9, 15\} = 9$



Zero graph Z

Perfect matching ———— Output Max weight matching.