max matching - Blossom's algorithm

Finding max matching Start with $m = \emptyset$ Find any path P in (G, m)If P == [J], return m, as max matched Order $m = m \oplus P$

Finding augmenting path in (G,rn)

U = un matched verbles

creekfrent for each u c U

treet creak a bree with not (u)

Forest

Feet u as EVEN label

mark each edge in £ 1 m as un explored, each edge in m as explored.

Queue = V = vertices to be explored = U

I is not empty: while v = V. psp () for every wexplosed cage $\sqrt{-\omega}$ w& F we F (so w matched vertex) ← mexpers, s= € m * label w odd * label & even * add y-w, w-x to bree (V) (and hence + F) w, x E F also now mark parent (x) = w parent (w)= V ard x to V.

mark

~ lakes

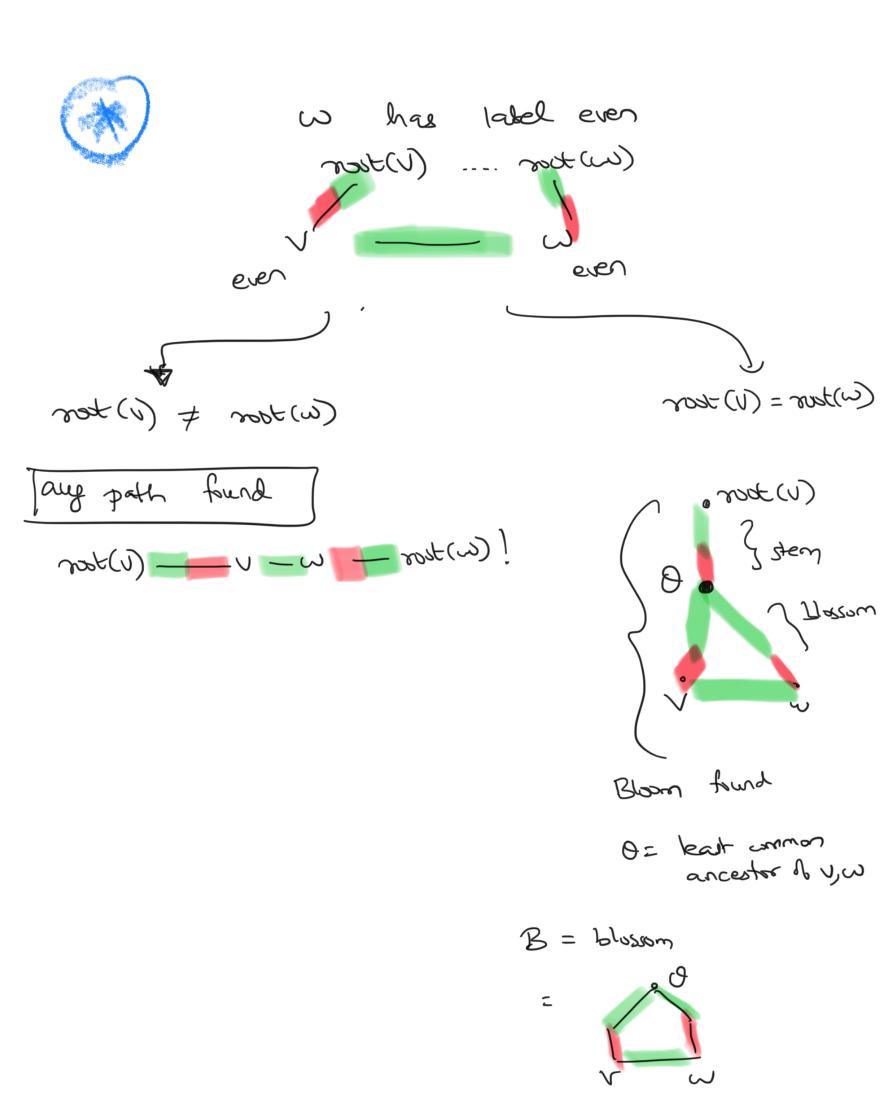
odd

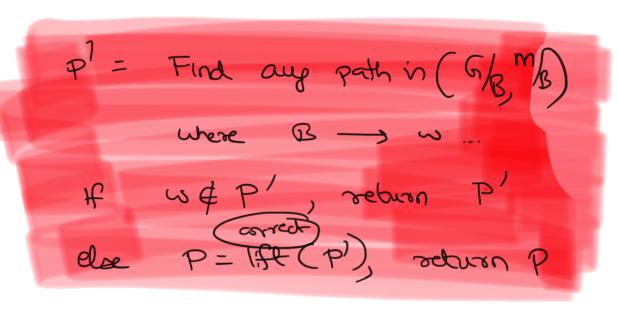
1

no thing

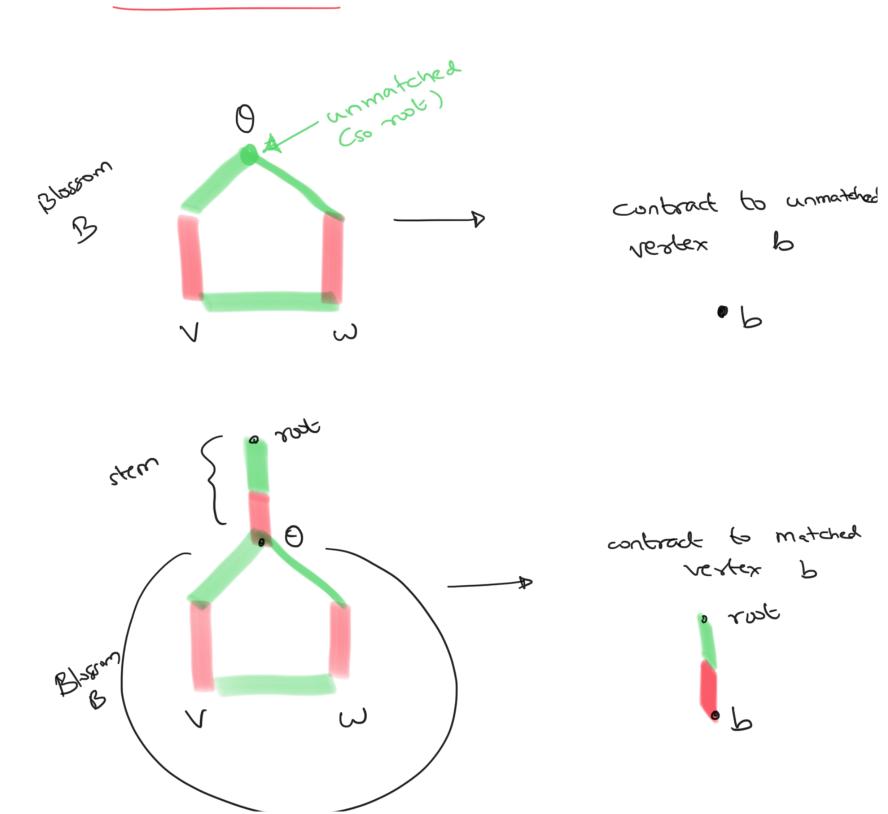
Do

explored.





more details



if any path in G/B does not contain b rebush itself if it contains b. b matched b unmatched

