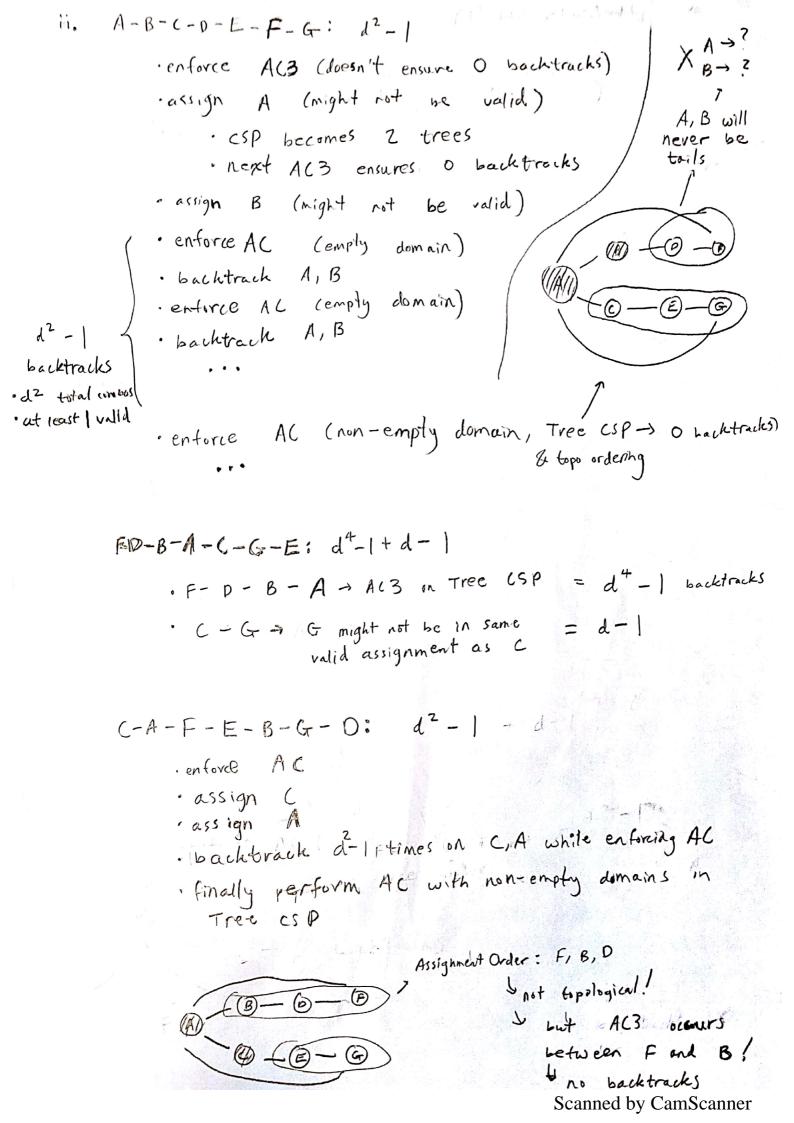


Tree 2- Pass Algo renforce DAE, CAD, BAC, AAB (subjet of AC olgo acis) o(ed2) · assign A, B, C, D, E in that order (Forward) · general: pick not, perform Topo Sert, enforce Parl %;) > X; 41 1 = n, ..., 2, assign X: for 1=1,..., N Topo sort each E-B-D-E-A:O . Same as Tree 2-Pass node doesn't have = 2 0 B 0 - B A edges from A-E-B-D-C: 2(d-1) (if no empty domain, there is a set of udid assignments) · enforce AL ·assign A assign E (might not be on same valid assignment as A) · worst case: backtrack through all values in dimain of E except for correct assignment (d-1 back-· alsign D (same at E) d-1 backtracks) observe: E is not connected to previous var A (may lead to conflict), O is not connected to previous var B, B/C are assigned immediately after AL Example • Assign A = 5· Assign E = 6 · Bachtrack after AC Assign E=5 . A>B · B> C · Backtrack after AL · C> D · D>E bachtracks



· LCV doesn't matter

· only changes order of expliring domain of

an unassighed var

· MRV affects order of node expliration

· matters if there are redges

Final Notes

- · CSP problems tend to be mechanical
- · Understand motione, Tree A-Pass, Al, Forward-checking