

Forward Checking Looking for a π Mapping

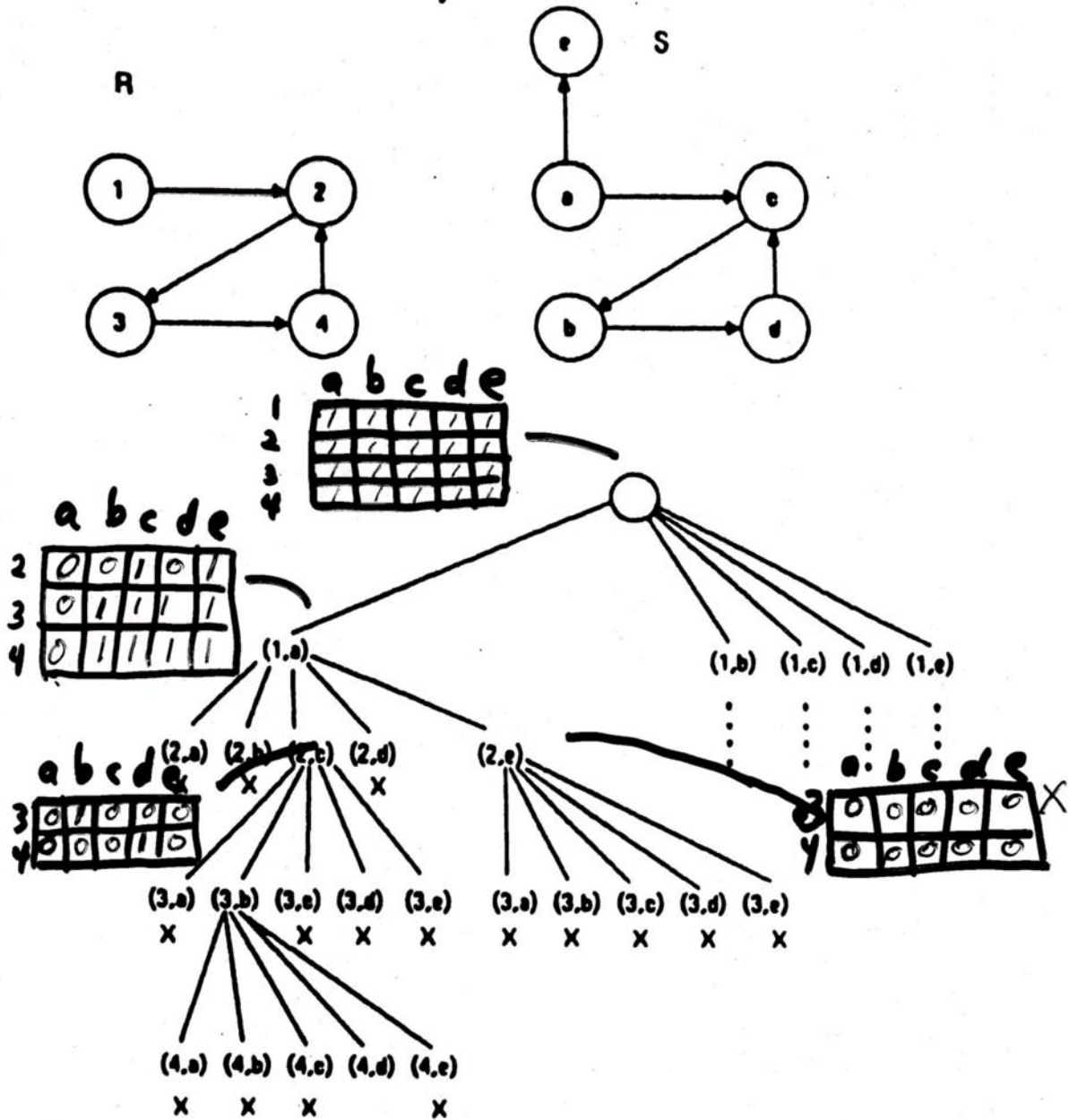
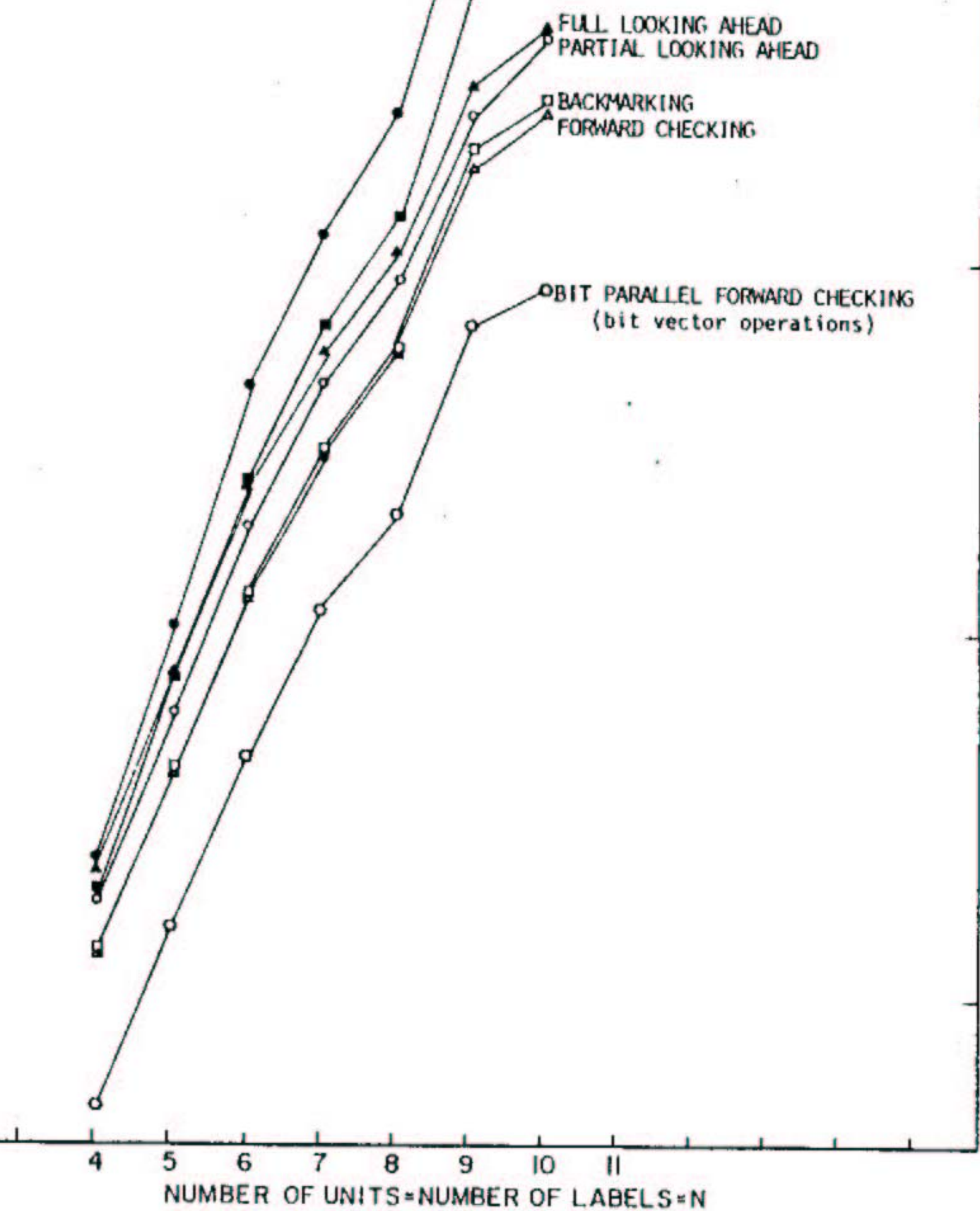


Fig. 9. Backtracking tree search to find a homomorphism from $R = \{(1,2), (2,3), (3,4), (4,2)\}$ to $S = \{(a,c), (c,b), (b,d), (d,c), (a,e)\}$. X under a node indicates failure. The only homomorphism found is with $f = \{(1,a), (2,c), (3,b), (4,d)\}$.



number of consistency tests in the average of 5 runs of the indicated programs. random with consistency check probability $p = 0.65$ and number of units = number of each random relation is tested on all 6 methods, using the same 5 different relations.