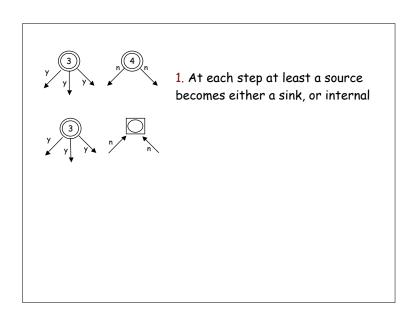
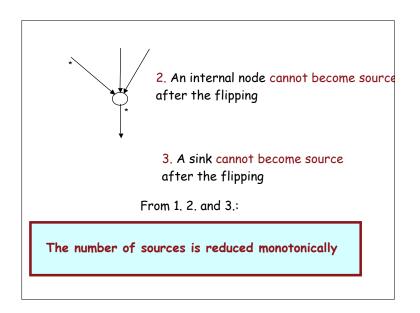


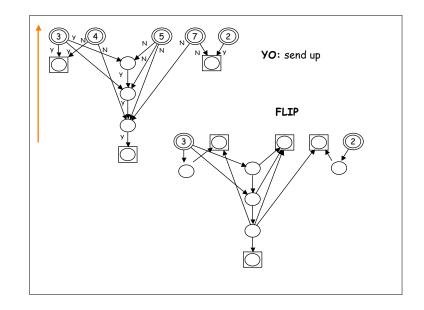


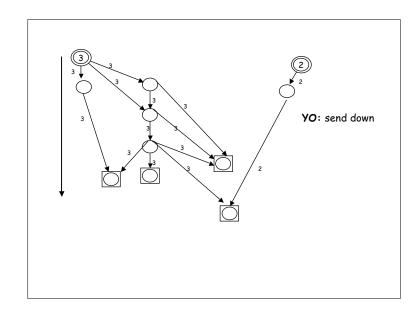
The direction of the links with "NO" will be flipped

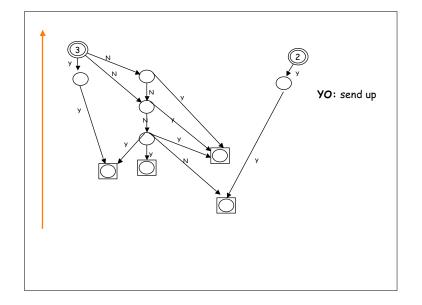
The sources with at least a "NO" will become sinks or internal nodes

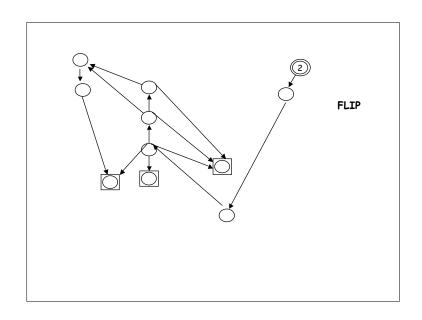


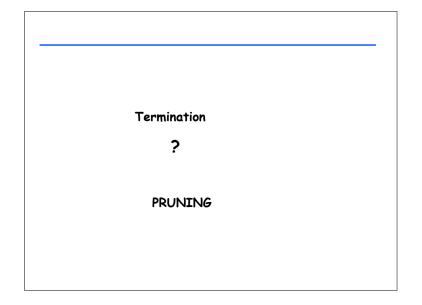


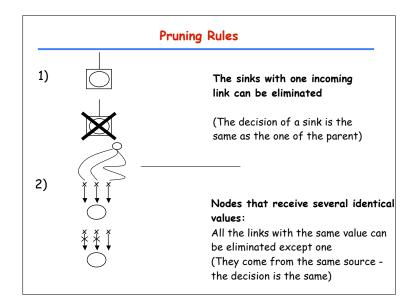


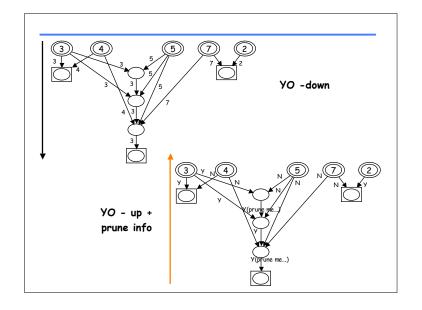


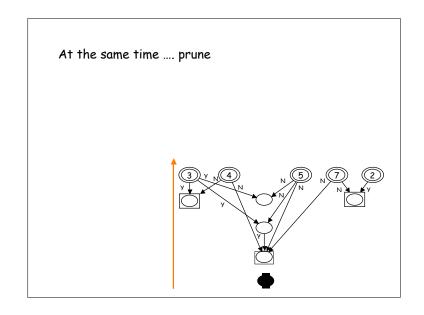


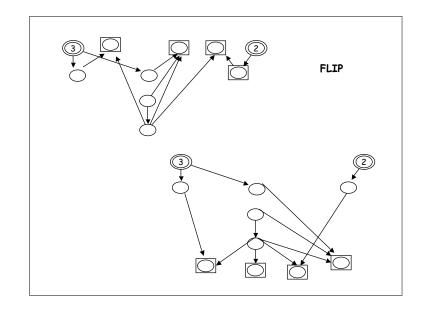


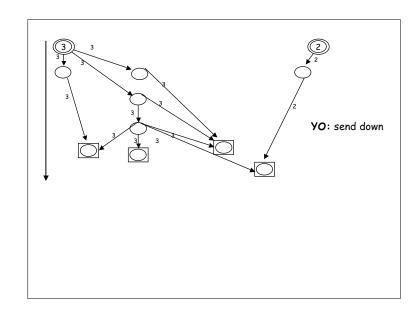


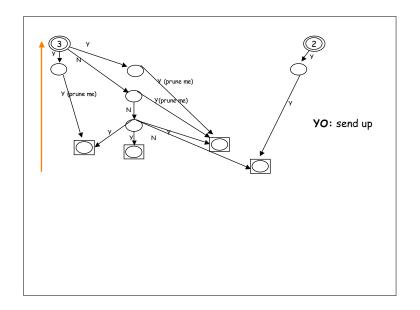


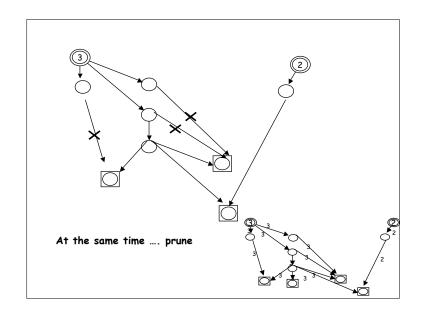


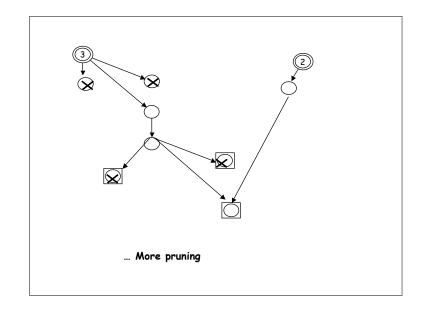


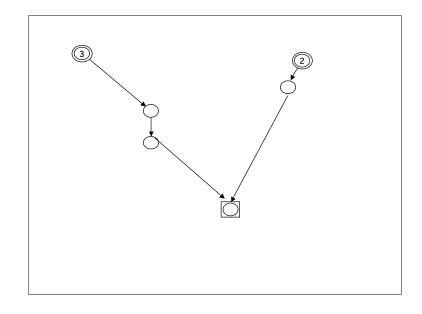


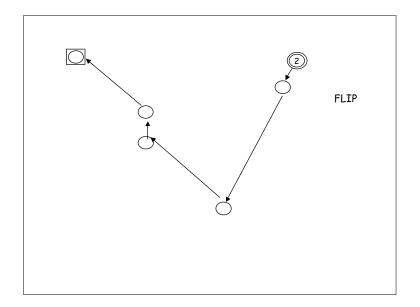


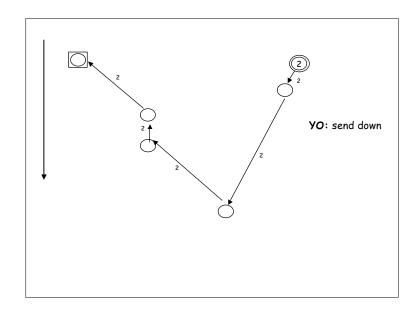


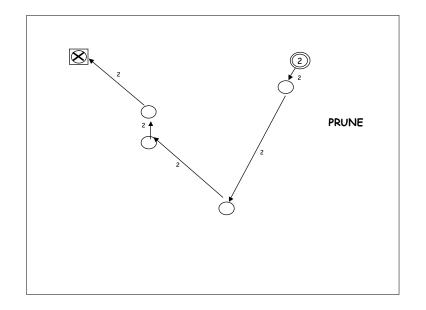


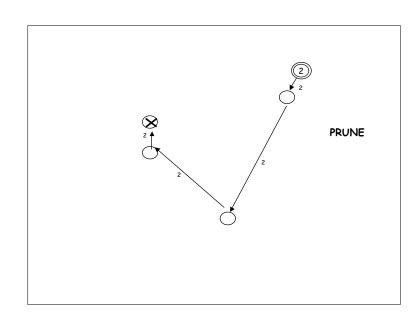


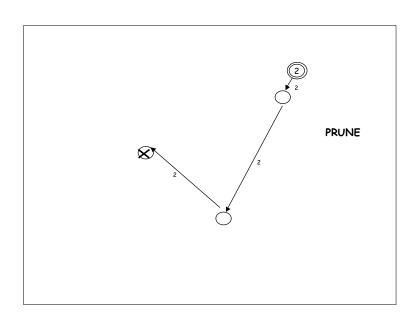


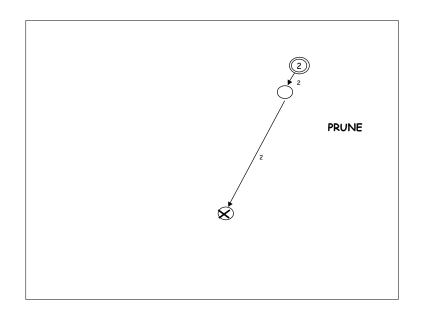


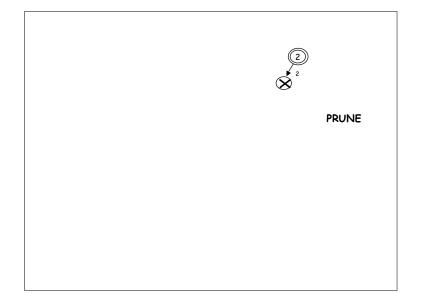












Complexity

TOT: 2m log s

PRUNE

Without Pruning There are 2 messages for each link at each phase - The number of phases is: log(# sources) (s = # sources)

With Pruning: ?

Spanning Tree Construction and Election

n: number of nodes

m: number of edges

a)
$$E \leq ST + O(n)$$

b)
$$ST \le E + O(m)$$

$$E = \Omega(m + n \log n)$$

$$\mathsf{ST} = \Omega(\mathsf{m} + \mathsf{n} \log \mathsf{n})$$