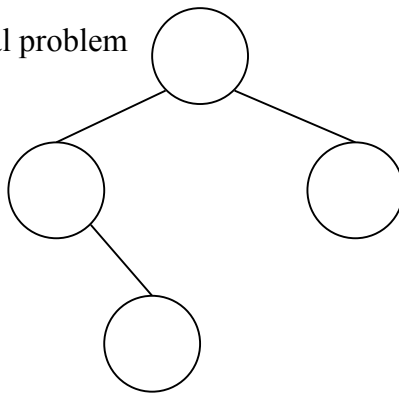


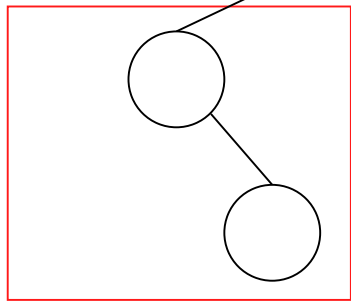
$$\text{maxdepth} = \max(a, b) + 1$$

$$\text{dist} = \max(a, b) + 1$$

original problem

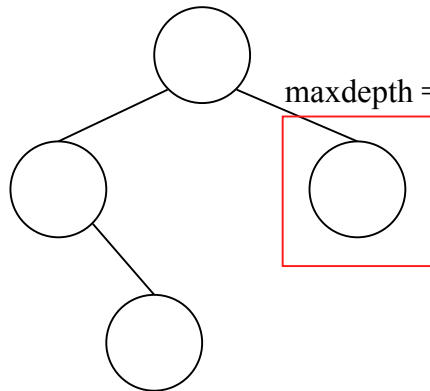


$$\text{maxdepth} = a$$



sub-problem
on
the left sub-tree

$$\text{maxdepth} = b$$



sub-problem
on
the right sub-tree