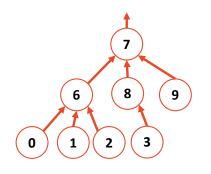
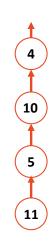
Disjoint Sets – Smart Union





Union by height

ľ												
	6	6	6	8		10	7		7	7	4	5
ļ	0	1	2	3	4	5	6	/	8	9	10	11

Idea: Keep the height of the tree as small as possible.

Union by size

0	1	2	3	4	5	6	7	8	9	10	11
6	6	6	8		10	7		7	7	4	5

Idea: Minimize the number of nodes that increase in height

Both guarantee the height of the tree is: _____