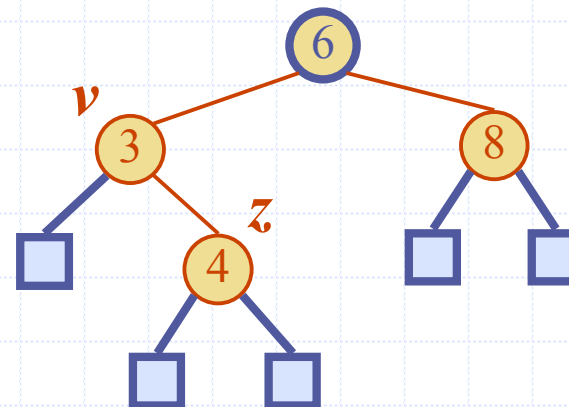


Splay Trees



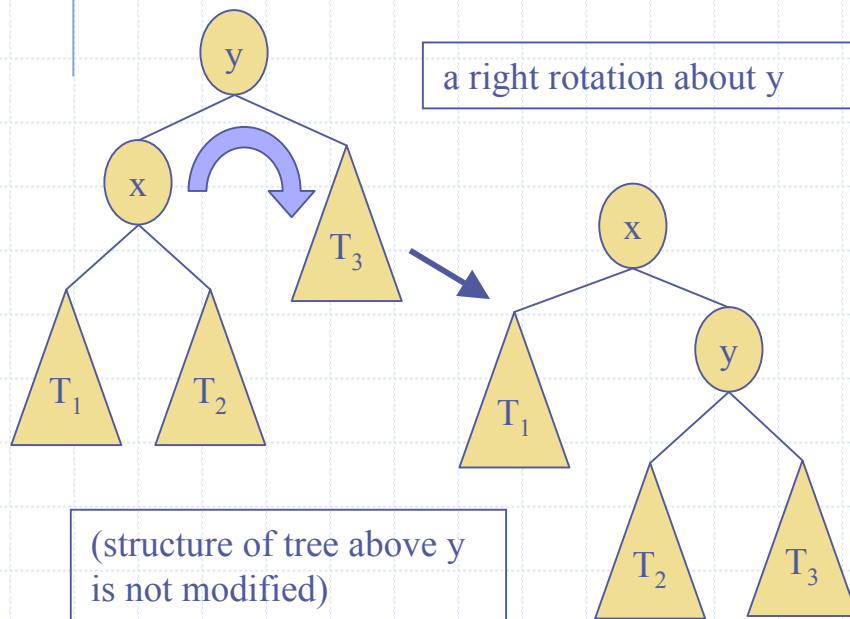
Splay Trees do Rotations after Every Operation (Even Search)

- ◆ new operation: **splay**

- splaying moves a node to the root using rotations

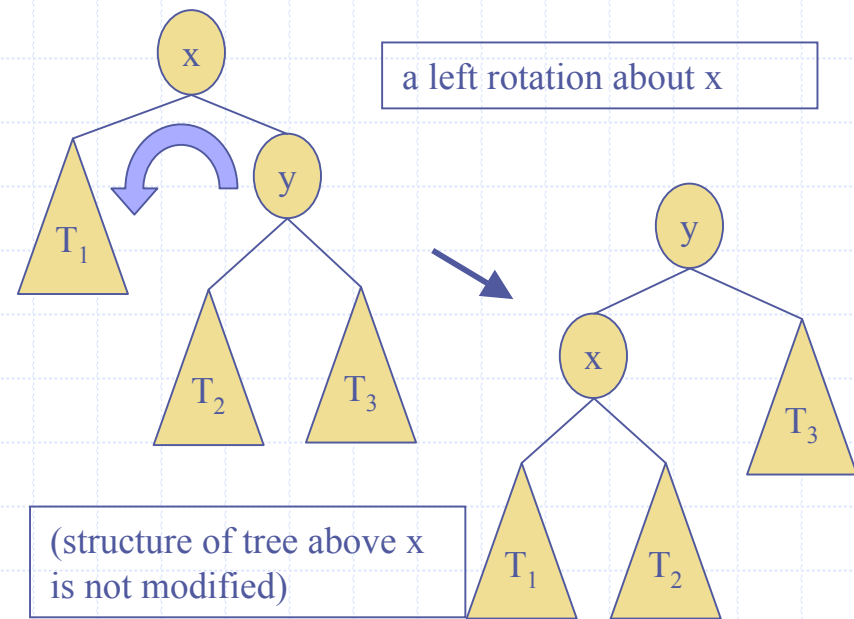
- right rotation

- makes the left child x of a node y into y 's parent; y becomes the right child of x



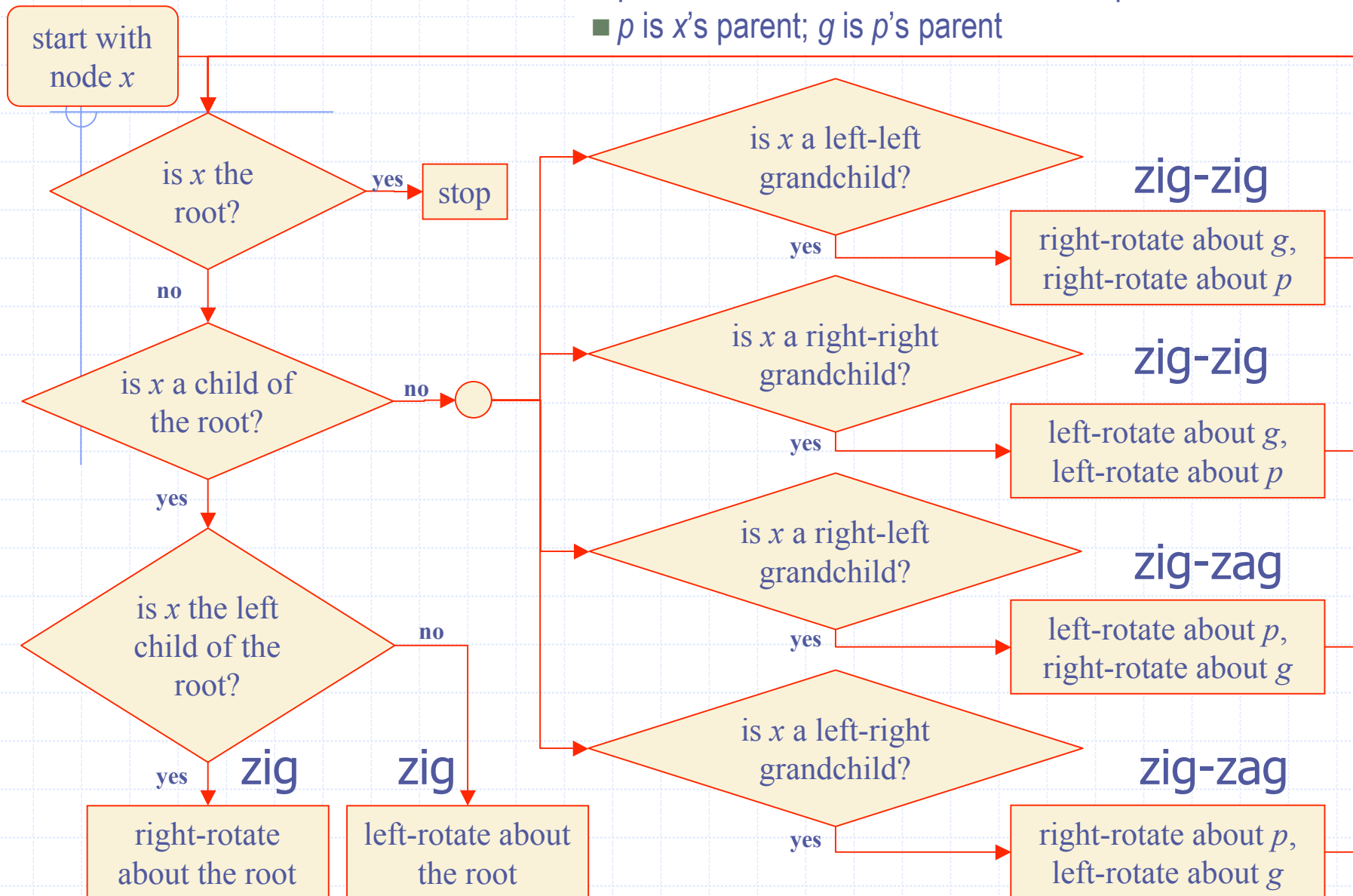
- left rotation

- makes the right child y of a node x into x 's parent; x becomes the left child of y



Splaying:

- “ x is a left-left grandchild” means x is a left child of its parent, which is itself a left child of its parent
- p is x 's parent; g is p 's parent



Visualizing the Splaying Cases

