

Red Black Trees

Colored Nodes Definition

- Binary search tree.
- Each node is colored **red** or black.
- Root and all external nodes are black.
- No root-to-external-node path has two consecutive red nodes.
- All root-to-external-node paths have the same number of black nodes

Red Black Trees

Colored Edges Definition

- Binary search tree.
- Child pointers are colored **red** or black.
- Pointer to an external node is black.
- No root to external node path has two consecutive **red** pointers.
- Every root to external node path has the same number of black pointers.

Example Red-Black Tree

