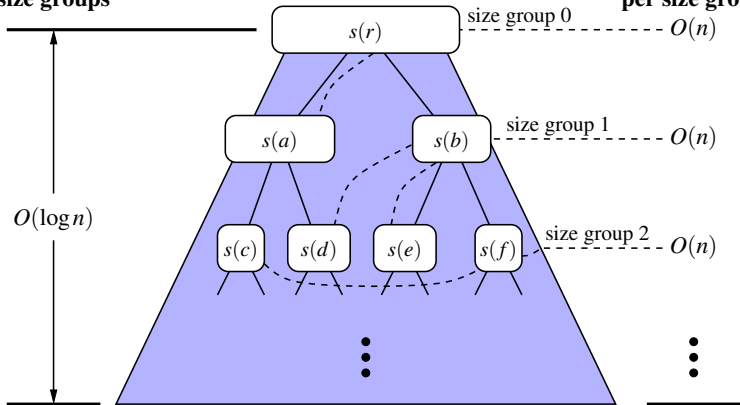


**Number of
size groups**

**Expected time
per size group**



Total expected time: $O(n \log n)$