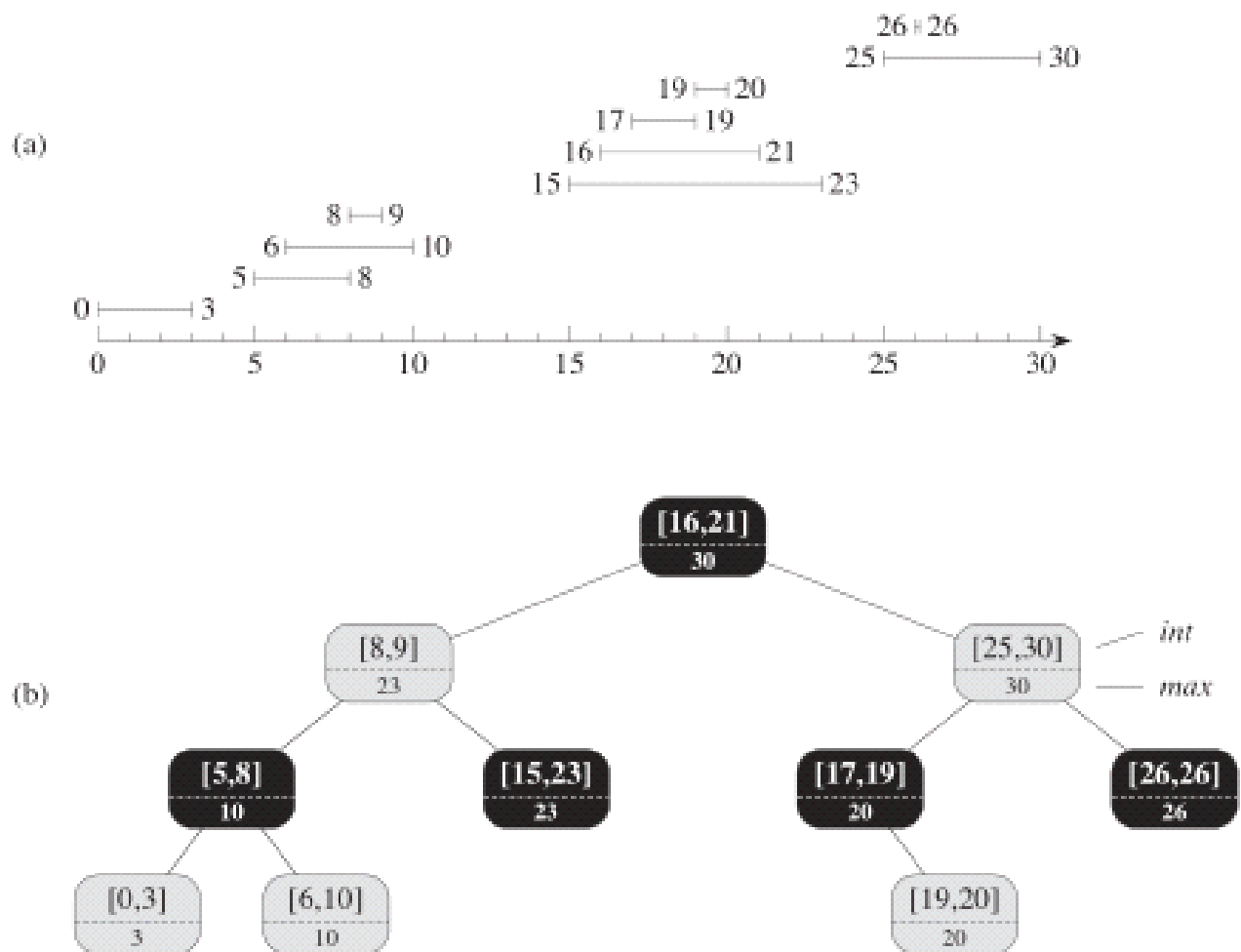


**Figure 14.1** An order-statistic tree, which is an augmented red-black tree. Shaded nodes are red, and darkened nodes are black. In addition to its usual attributes, each node  $x$  has an attribute  $x.size$ , which is the number of nodes, other than the sentinel, in the subtree rooted at  $x$ .



**Figure 14.4** An interval tree. (a) A set of 10 intervals, shown sorted bottom to top by left endpoint. (b) The interval tree that represents them. Each node  $x$  contains an interval, shown above the dashed line, and the maximum value of any interval endpoint in the subtree rooted at  $x$ , shown below the dashed line. An inorder tree walk of the tree lists the nodes in sorted order by left endpoint.