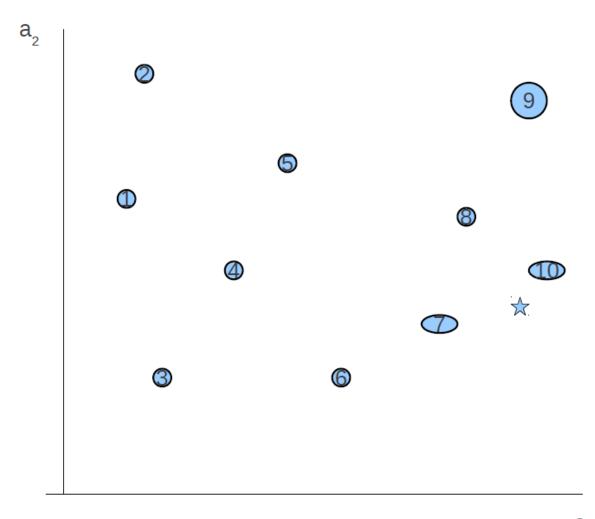
Draw a kD-tree for the following set of training instances. Also show the rectangular regions, and number the points in the drawing and in the tree. The star is the test case. Show the path taken by the star through the tree, and how the nearest neighbour is located. We assume that a_1 attribute has higher variance than a_2 .



 $\mathsf{a}_{_1}$