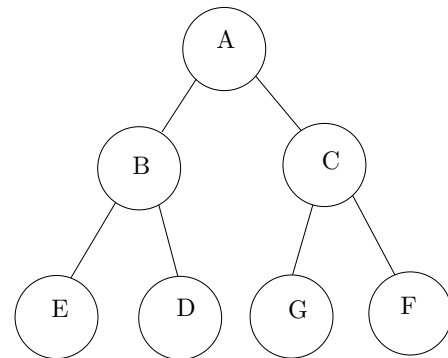
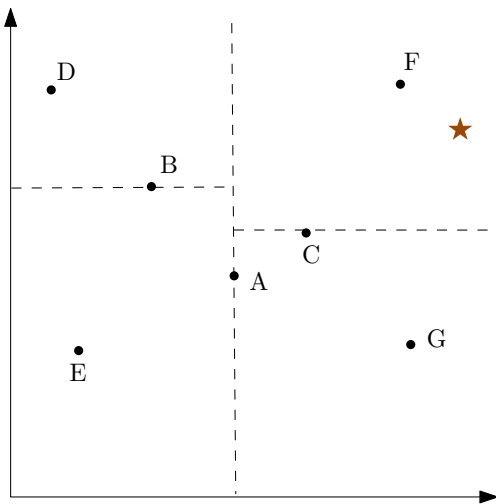
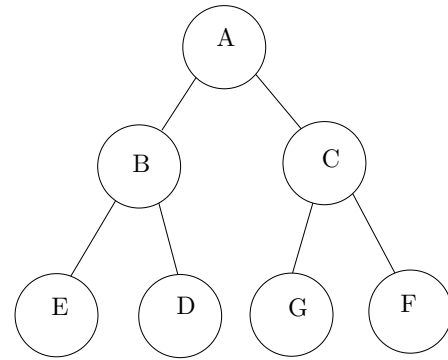
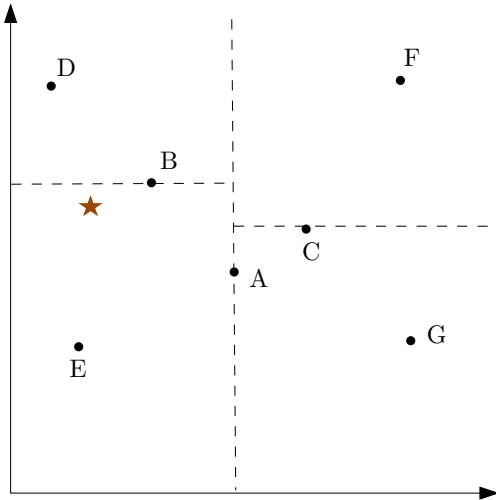


**KD-trees: nearest neighbor search and  $k > 1$**

*(find and work with a partner)*

- For the two examples below (where the star is the query), trace how the nearest neighbor would be found. Mark which nodes would be visited in each case.



- Brainstorm how you could modify the naive nearest neighbors algorithm to return the  $k$  nearest neighbors instead of just the best one.
- Answer the same question as above, but for the KD-trees algorithm.