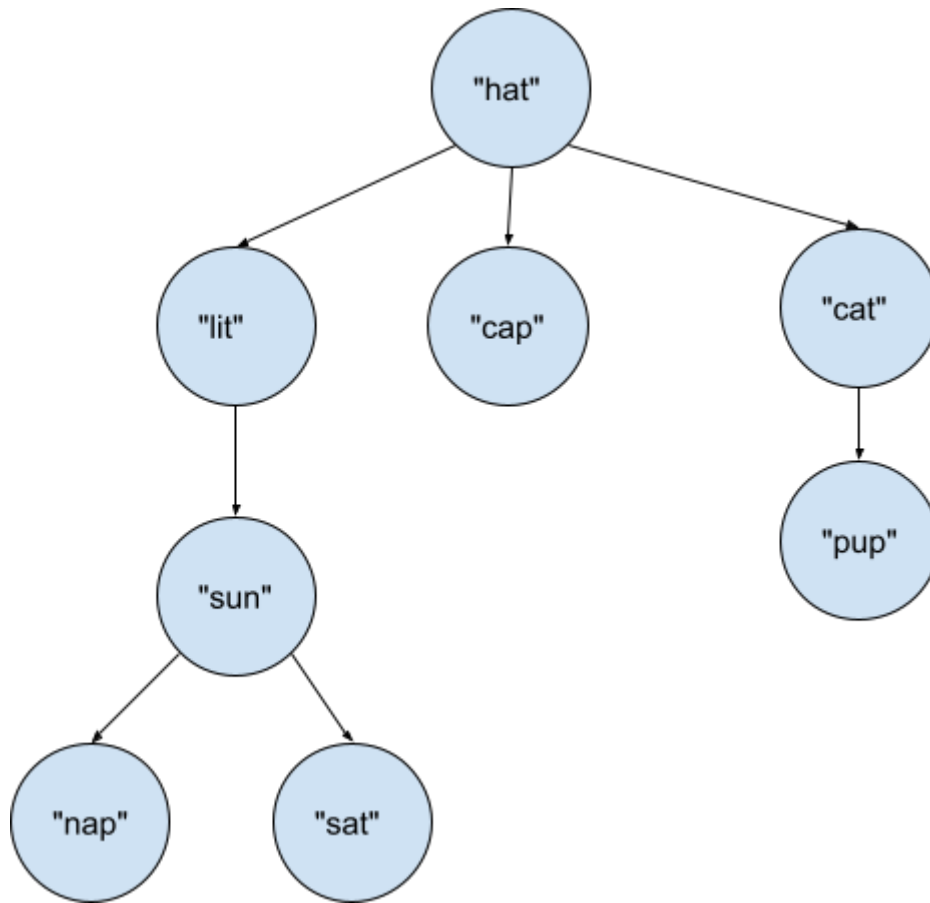


# HW3

Given this Tree **T**, answer the following questions:



1 Assuming **T** is defined in Java, what code do I write to get "sun" back?

**`T.getChildren().get(0).getChildren().get(0).getValue();`**

2 What will `System.out.println(T.getChildren().get(2).getChildren())` output? Be as specific as possible.

**`["pup"]`**

3 Given the following code, what will we output for mystery(T)?

```
public static void mystery(TreeNode<String> node) {  
    List<TreeNode<String>> children = node.getChildren();  
    for (int i = 1; i < children.size(); i++) {  
        TreeNode<String> child = children.get(i);  
        System.out.println(child.getValue());  
        mystery(child);  
    }  
}
```

**["nap"] ["sat"] ["sun"] ["lit"] ["cap"] ["pup"] ["cat"]**