Lec-42

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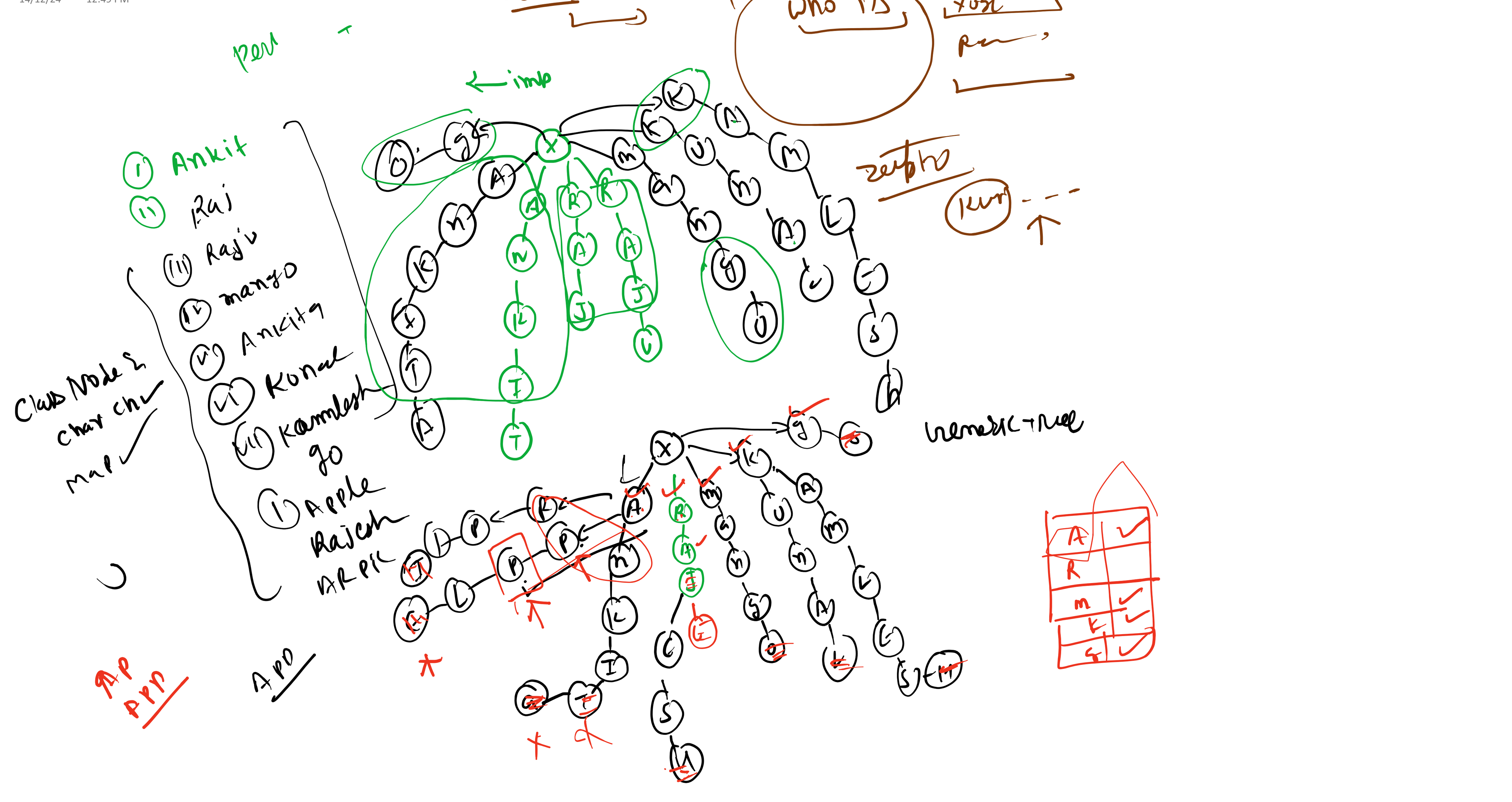
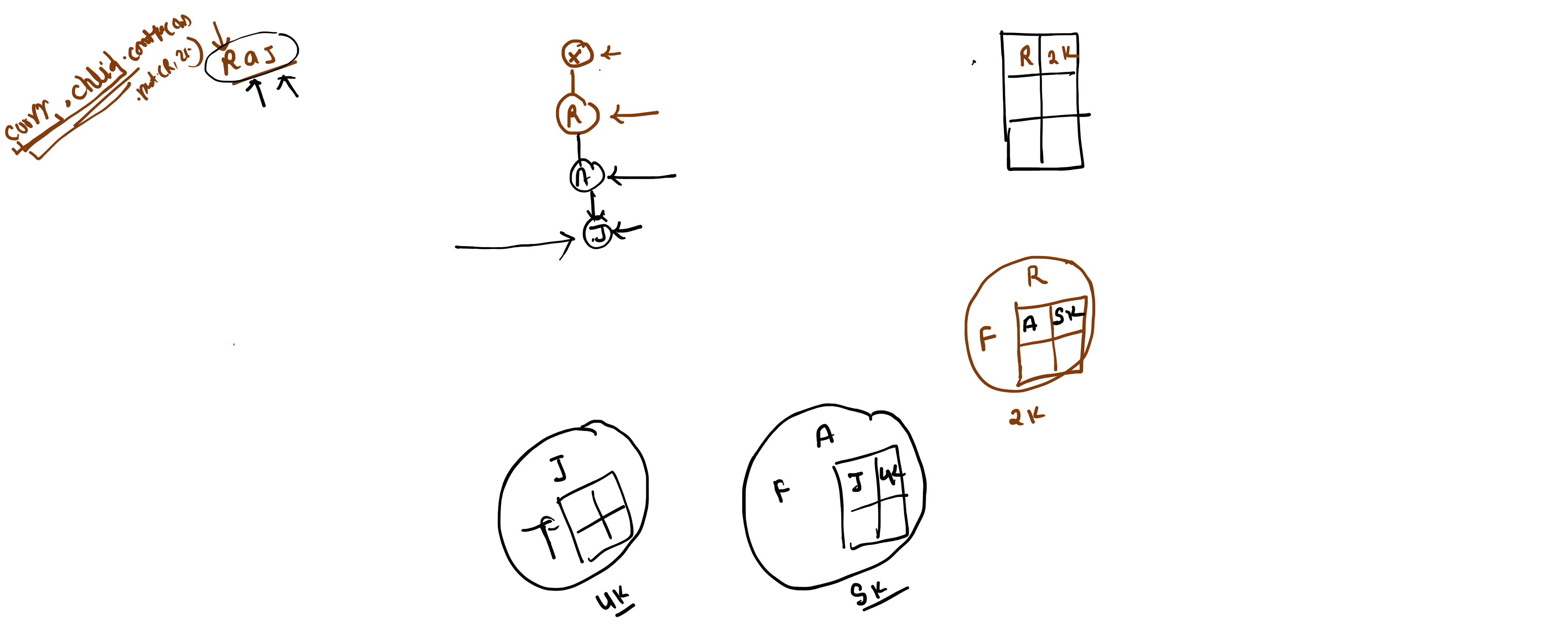
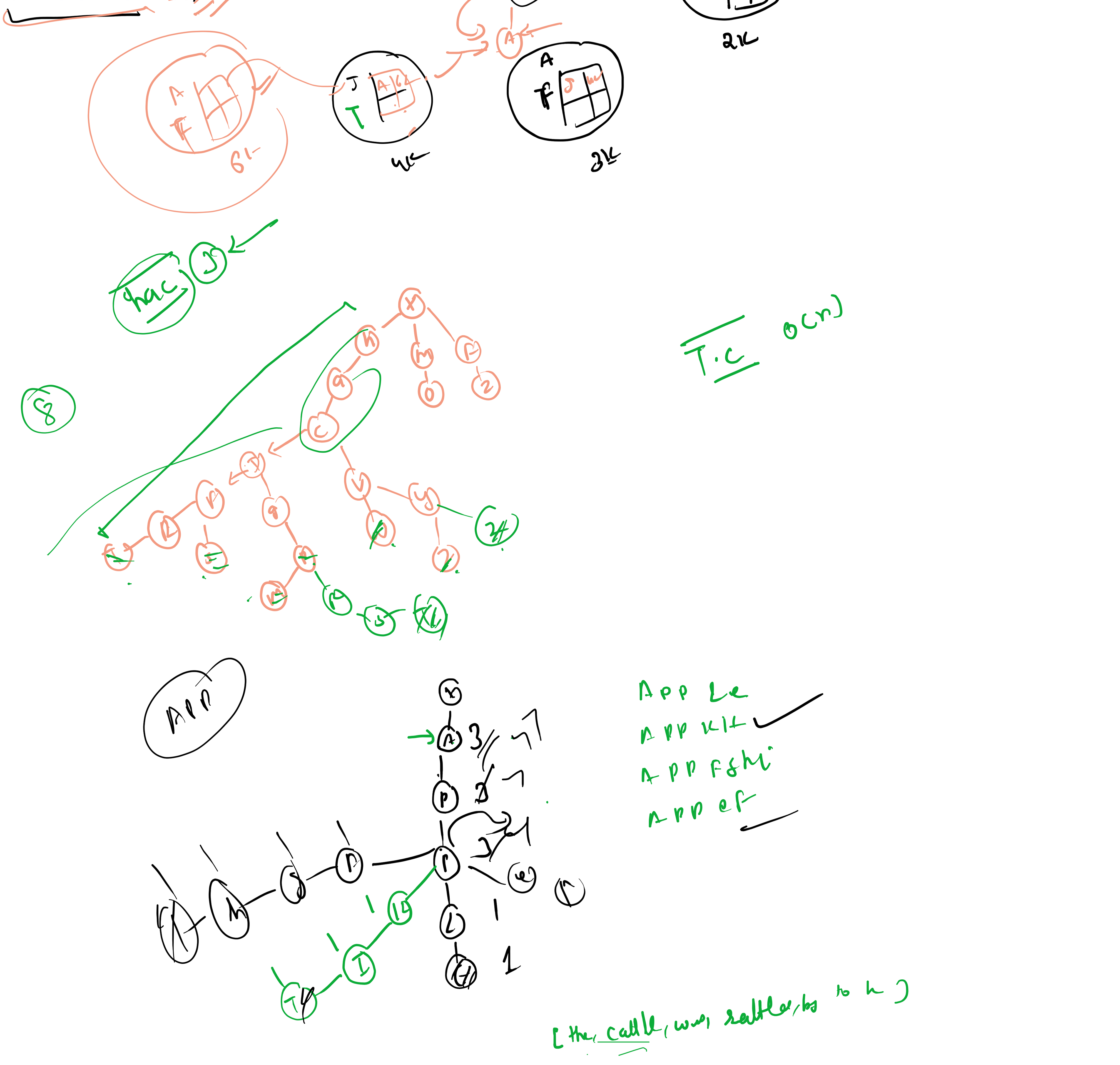




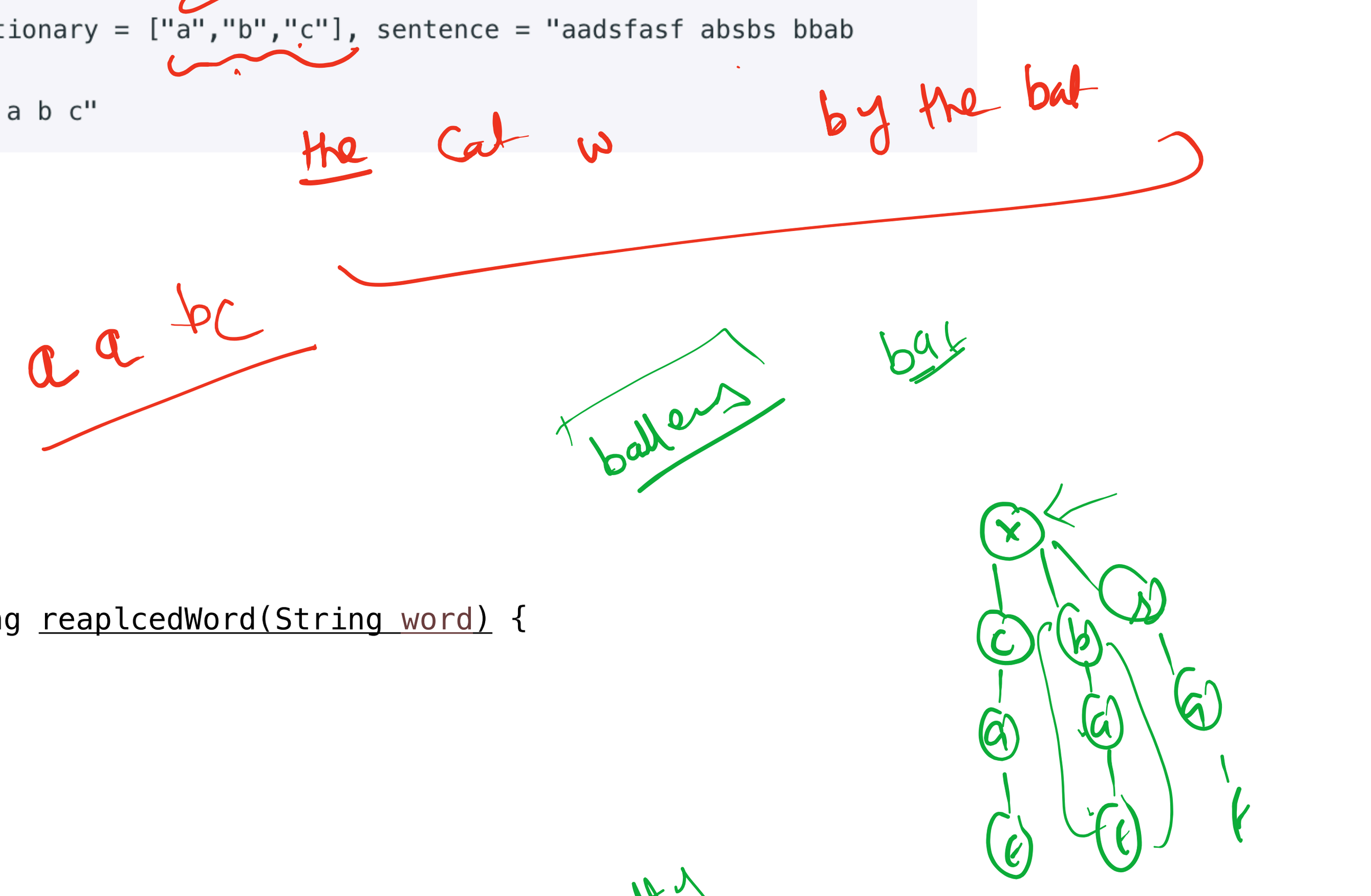
```java
public void insert(String word) {
        Node curr = root;
        for (int i = 0; i < word.length(); i++) {
            char ch = word.charAt(i);
            if(curr.chlid.containsKey(ch)) {
            }
            else {
                Node nn = new Node(ch);
                curr.chlid.put(ch, nn);
                curr=nn;
            }
        }
        curr.isterminal=true;
    }
```



```
Input: dictionary = ["cat","bat","rat"], sentence = "the cattle was rattled by the battery"
Output: "the cat was rat by the bat"
```

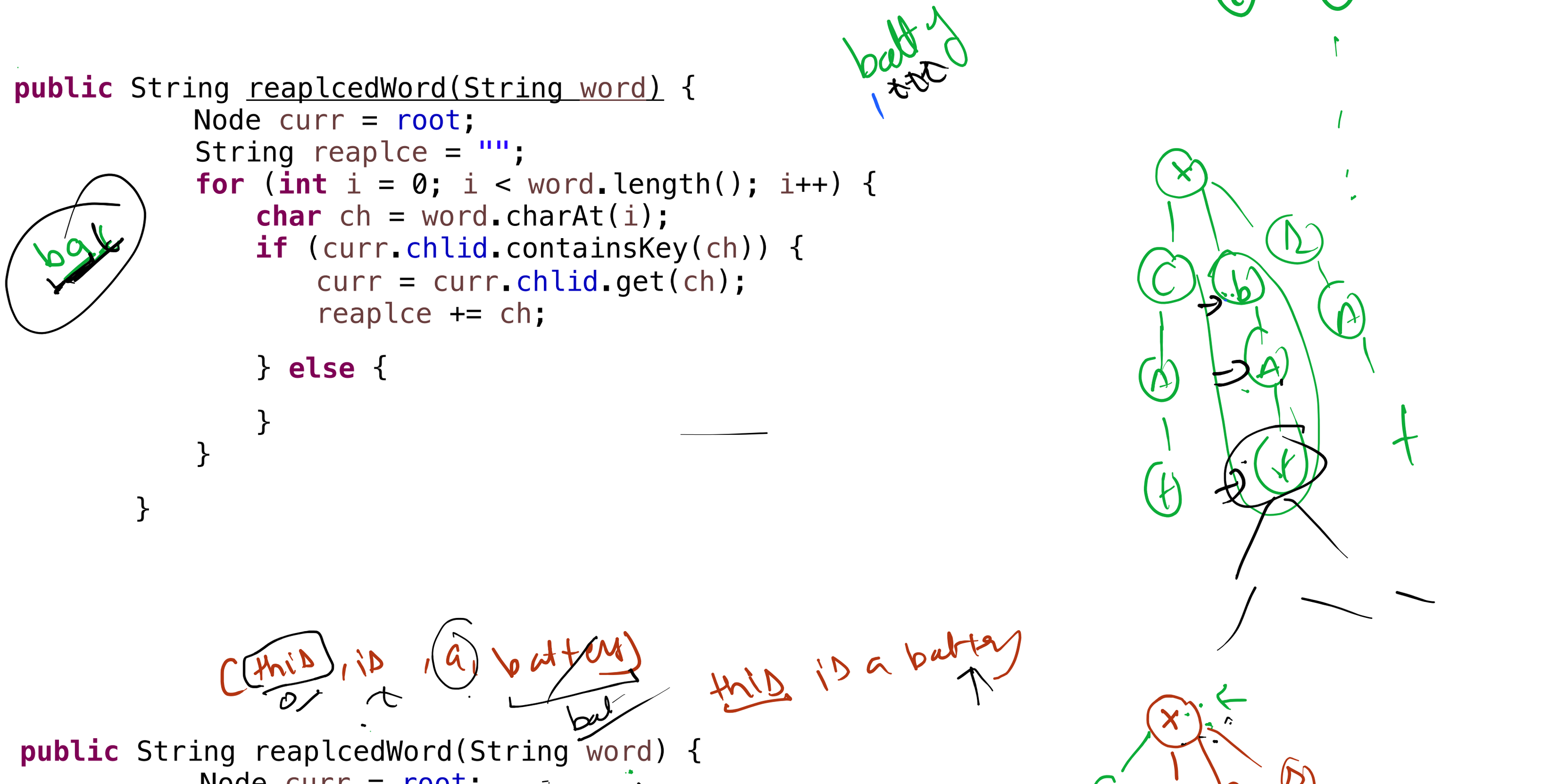
Example 2:

```
Input: dictionary = ["a","b","c"], sentence = "aadsfasf absbs bbab cadsfafs"
Output: "a a b c"
```

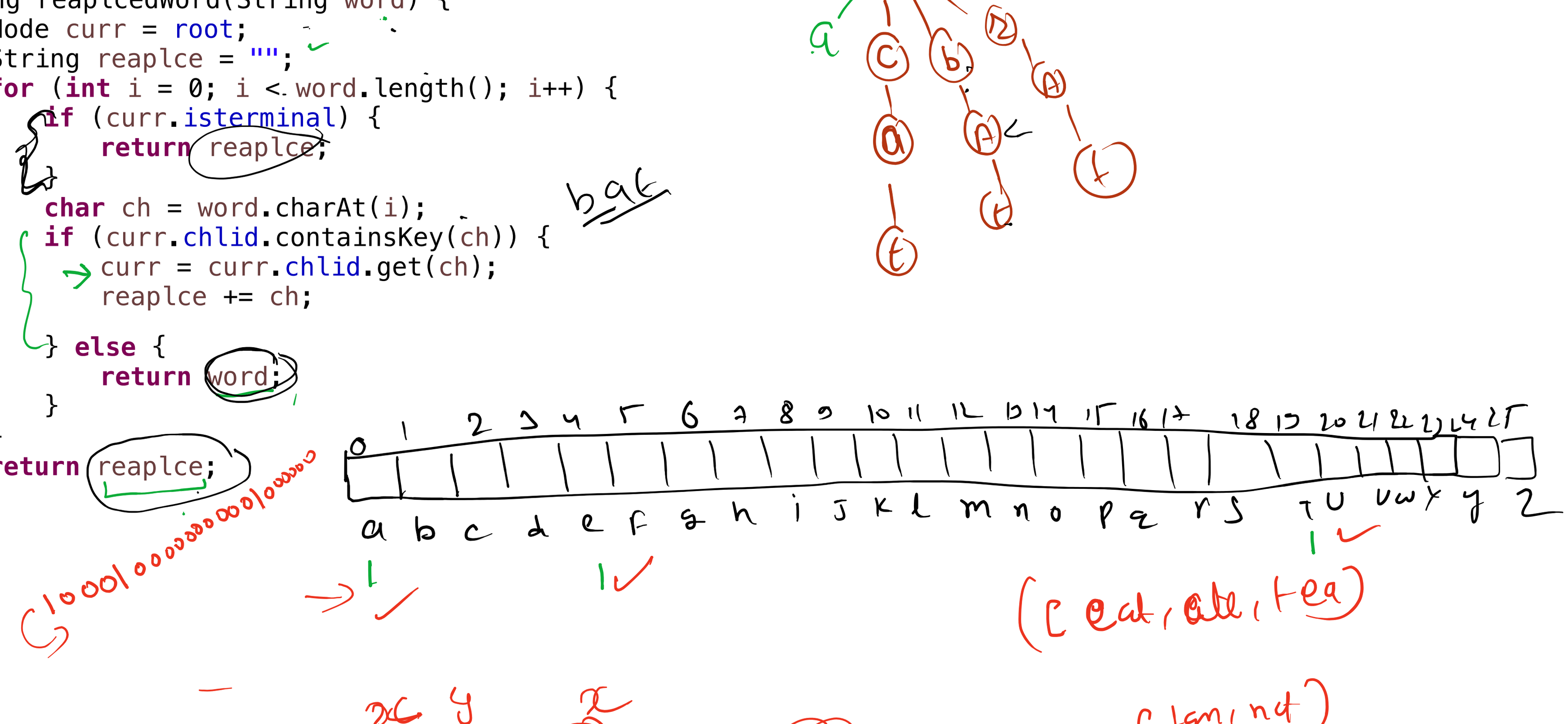


```java
public String reaplcedWord(String word) {
        }
```

```java
public String reaplcedWord(String word) {
        Node curr = root;
        String reaplce = "";
        for (int i = 0; i < word.length(); i++) {
            char ch = word.charAt(i);
            if (curr.chlid.containsKey(ch)) {
                curr = curr.chlid.get(ch);
                reaplce += ch;

            } else {

            }
        }

    }
```



```java
public String reaplcedWord(String word) {
        Node curr = root;
        String reaplce = "";
        for (int i = 0; i < word.length(); i++) {
            if (curr.isterminal) {
                return reaplce;
            }
            char ch = word.charAt(i);
            if (curr.chlid.containsKey(ch)) {
                curr = curr.chlid.get(ch);
                reaplce += ch;

            } else {
                return word;
            }
        }
        return reaplce;
    }
```



Input: strs = ["eat","tea","tan","ate","nat","bat"]

Output: [["bat"],["nat","tan"],["ate","eat","tea"]]

```java
public List<List<String>> group_Anagrams(String[] arr) {
        HashMap<String, List<String>> map = new HashMap<>();
        for (int i = 0; i < arr.length; i++) {
            String key =Anagramkey(arr[i]);
            if(!map.containsKey(key)) {
                map.put(key, new ArrayList<>());
            }
            map.get(key).add(arr[i]);
        }


    }
```