

When people send messages on their phones, they sometimes modify word spelling by adding extra letters for emphasis. For example, if you want to emphasize hello you might write it "helllooooo". Let's call the "ls" and the "os" word extensions. Regular text contains 2 or fewer of the same character in a row, while word extensions have 3 or more of the same character in a row. Given an input string representing one word, write a method that returns the start and end indices of all extensions in the word.

"helllooo" -> [[2,4], [5,7]]

"hhhelllooo" answer: [[0,2],[4,6]]

Input: lower case string

Output: is array or list, start&end of extensions(>=3)

Input: ""

Output: empty list or array

Limit of length: up to 1M digits

```
public List<List<Integer>> getExensionsCount(String input){
    if(input == null) return new ArrayList<>();
    if (input.length() <= 2) return new ArrayList<>();
    List<List<Integer>> result = ArrayList<>();
    Character c = input.charAt(0);
    int start=0, end=0;
    for(int i=1;i<input.length();i++){
        if(input.charAt(i) == c){
            end=i;
            if (i==input.length()-1 && end-start+1>=3){
                result.add(Arrays.asList(start, end)); // previous one
            }
        }else{
            if (end-start+1>=3){
                result.add(Arrays.asList(start, end)); // previous one
            }
            start = i;
            end = i;
        }
        C = input.charAt(i); // update the current letter
    }
    return result;
}
```

Example: "ooo"

Expected : [[0,2]]

Time O(n)

Now we want to spell-check extended words. You are given a dictionary of words. Implement method `isExtendedDictionaryWord` that will return:

- true if it is a dictionary word.
- true if you collapse the extensions in the word and it is a dictionary word.
- false otherwise.

`['hello', 'hi']`

`'Helllloooo' -> 'hello'`

For L count in (1,2)

 For O count in (1,2)

 ... for other letters which has extensions

 Check this case()

2^c (c is the count of letters which has extensions) , c is always less than n

2^n

`HashMap<String> dict o(1)`

`Public boolean isExtendedDictionaryWord(String input, HashMap<String> dict){`

`}`