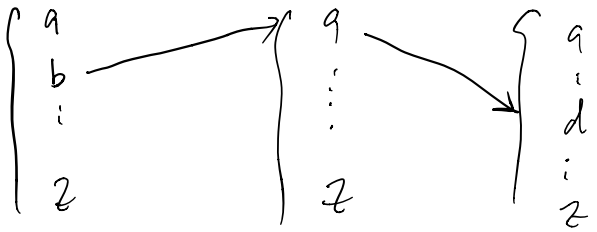


```
const Node = function() {
    this.words = {};
    this.isEnd = false;
}

var WordDictionary = function() {
    this.root = new Node();
}

WordDictionary.prototype.addWord = function(word){
    let ptr = this.root;
    for(const c of word) {
        if(!(c in ptr.words)) {
            ptr.words[c] = new Node();
        }
```

```
        ptr = ptr.words[c];
    }
    ptr.isEnd = true;
}
```

i >= word.length.

AB

{A -> {B -> {isEnd

ab.

// abc .bc

```
WordDictionary.prototype.search = function(word, ptr = this.root,
                                           i = 0) {
    if (i >= word.length - 1) {
        return ptr.words[word[i]].isEnd ||
            word[i] === '.';
    }
    if (word[i] in ptr.words) {
        return this.search(word, ptr.words[word[i]],
                           i+1);
    }
}
```

```
if (i >= word.length) {
    return ptr.isEnd;
}
```

```
if( word[i] === '.' ) {
    for ( const w in ptr. words ) {
        if ( this. search ( word, ptr. words[w], i+1)) {
            return true;
        }
    }
}
return false;
}
```