

```
public static String compute(String input, int x) {  
    // initialize: x = 0  
    if (input.length() == x){  
        String result = "";  
        for (int i = 0; i <= x; i++){  
            result = result + input.charAt(x);  
        }  
        return result + compute(input, x+1);  
    }  
    return "";  
}
```