- What is mystery4(10, 2)?
- What is mystery4(4, 3)?
- What is mystery4(5, 0)?
- What is the time complexity of mystery4(b, e)?
- What is the space complexity of mystery4(b, e)?

```
Trace #5
```

```
def mystery5(s)
    if s.length == 0
    return ""
    else
        return "*" + mystery5(s[1..-1])
    end
end
```

- What is mystery5("hi")? ***
- What is mystery5("")?
- What is the time complexity of mystery5(s)? 0(5)
- What is the space complexity of mystery5(s)?
- Added Fun: How could we make only alphabetic characters to be changed to stars?

Trace #6

```
def mystery6(s)
  if s == nil || s.length == 0
    return ""
  else
    space = 0
    until space >= s.length || s[space] == " "
        space += 1
    end
    return mystery6(s[(space+1)..-1]) + " " + s[0...space]
  end
end
```

- What is mystery6("goodnight moon")? "_ moon goodnight"
- What is mystery6("Ada Developers Academy")?

 Academy Developers Ada
- What is mystery6("Hi, there!")? "_{here! Ki"
- . What is the time complexity of mystery6(s)? O(m) where m is the length of s
- What is the space complexity of mystery6(s)? O(m) For this I reason
- Added Fun: How could we make the reversal happen by letter, instead of by word (i.e. Make it so that mystery6("goodnight moon") returned "noom thgindoog")?