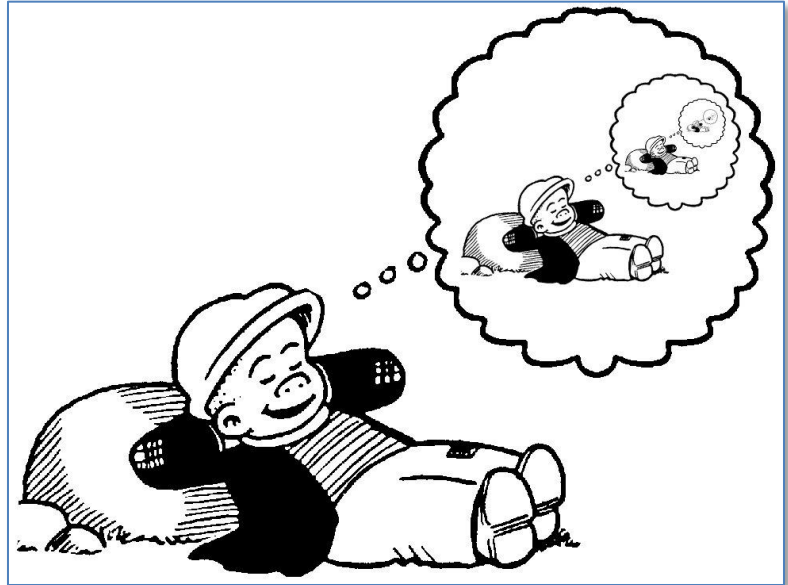


Assignment – Recursive Descent Parser**50 points****See Canvas for due date**

Implement a class called `SubstringTester` that uses recursion to generate all substrings of a given `String`. For example, the substrings of the string "Sluggo" are the 22 strings:

```
Sluggo
Slugg
Slug
Slu
Sl
S
luggo
lugg
lug
lu
l
uggo
ugg
ug
u
ggo
gg
g
go
g
o
""
```



You are not allowed to use any loops to build the substrings -- at least in your final product. You may, however, find it productive to solve the problem using loops first, and then translate to recursive code.

Implement methods in `SubstringTester` that will interact with the user, acquire a phrase and produce all of the substrings of that phrase. This class should

- Get a string from the user (possibly in 'main')
- Generate and display the substrings of the phrase

- Repeat the above two steps until the user chooses to quit

Javadoc

Additionally, this assignment requires that you 'Javadoc' your source code. That is, your source code must conform to the Javadoc documentation standards. See 'Course Documents' for Javadoc examples.

To Turn In

Turn in all source code in a single zip file. Name your zip file as usual. Submit to Canvas.

Note

Hint: You will need either two recursive methods or one recursive method that accepts a 'flag' indicating the type of substrings to be performed.

You should not have a great deal of code for this assignment -- think about it -- its recursion :-)