

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

No Javadoc on this assignment.

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 substringing to be performed.

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