CSC148 fall 2013 more recursion, testing week 4

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Class design for cheese

Recursion on nested lists

Testing, big and small



Separation of concerns

$\texttt{DomainStools} \longrightarrow \texttt{ManualController} \longleftarrow \texttt{CheeseView}$



nesting depth of list

Define the nesting-depth of L as 1 plus the maximum nesting depth of L's elements if L is a list, otherwise 0.

▶ the definition is almost exactly the Python code you write!

start by writing return and pythonese for the definition: return 1 + max([nesting_depth(x) for x in L]) if ...

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deal with the special case of a non-list



get some turtles to draw

Spawn some turtles, point them in different directions, get them to draw a little and then spawn again...





You probably want to combine (tuple?) the minimum number of moves with the split (i) that produces it.

before and after coding:

Test your docstring examples automatically:

```
if __name__ == '__main__':
import doctest
doctest.testmod()
```

For more thorough testing, use unittest

