Data Structures 9/16/2016

0145-343-001

Note Taker: Jai Punjwani

ANNOUNCEMENTS

Quiz Coming Up: Friday, 9/23

NOTES

Topic: Recursion (Can we emulate recursion in an environment/language that does not support it?)

PowerPoint: <http://home.adelphi.edu/~siegfried/cs343/343l3.pdf>

* Recursion is very computationally expensive, which is why some languages do not support it
* Program: **simfact** (see PowerPoint) – this program simulates recursion using a stack as its main data structure
* Takeaway: Pushes and pops in program are unnecessary. The same program could be written iteratively