## Homework 3: Test for Stutter

##### Use “Stutter.py” for questions a-d. (~~A compilable version is available in~~ [~~https://cs.gmu.edu/~offutt/softwaretest/java/Stutter.java~~](https://cs.gmu.edu/~offutt/softwaretest/java/Stutter.java)~~. A line-numbered version is in~~

[~~https://cs.gmu.edu/~offutt/softwaretest/java/Stutter.num~~](https://cs.gmu.edu/~offutt/softwaretest/java/Stutter.num)~~.~~ )

(a) Draw control flow graphs for all the methods in “Stutter.py”.

(b) List all the call sites.

(c) List all coupling du-pairs for each call site.

(d) Create test data to satisfy All-Coupling Uses Coverage for “Stutter.py“. (Informally, to cover all coupling du-pairs in (c).)

> …  
> Then we make sure that every def reaches all possible uses  
> All-uses coverage (AUC): For each set of du-paths to uses S = du (ni, nj, v), TR contains at least one path d in S.  
> …  
> From Ch07-1 “Data Flow Test Criteria”

Hint: Please refer to ch07-4.