

Software Testing Homework2 Answer Sheet

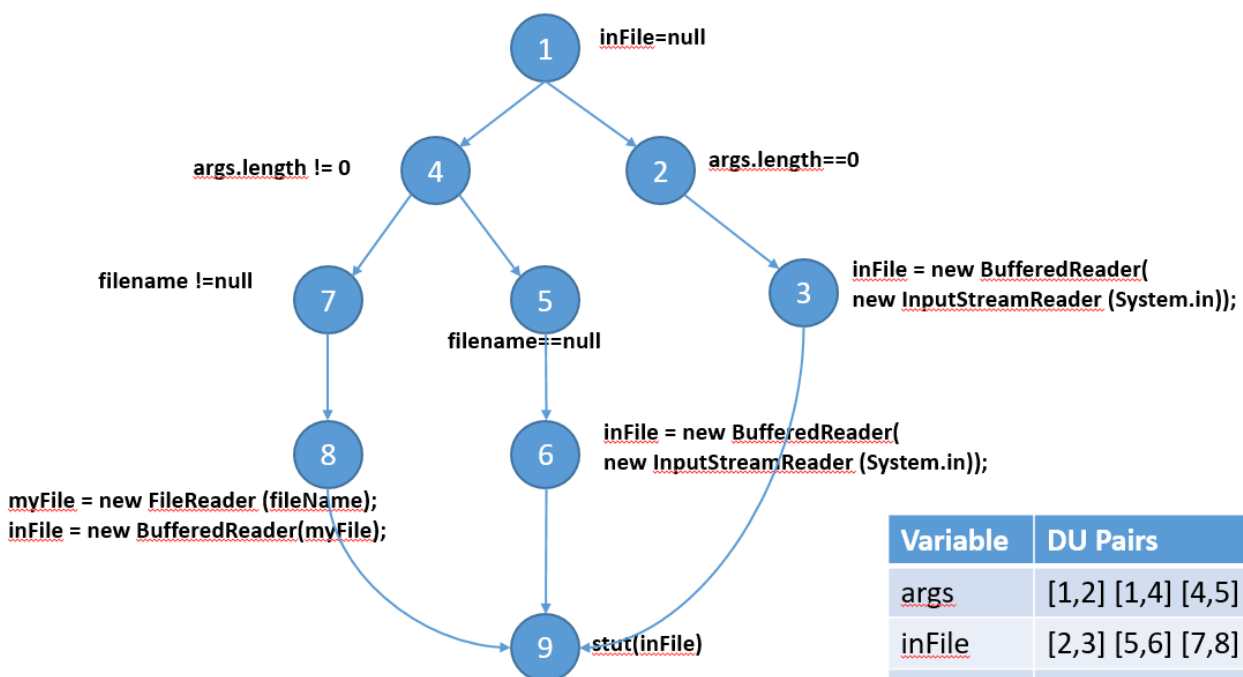
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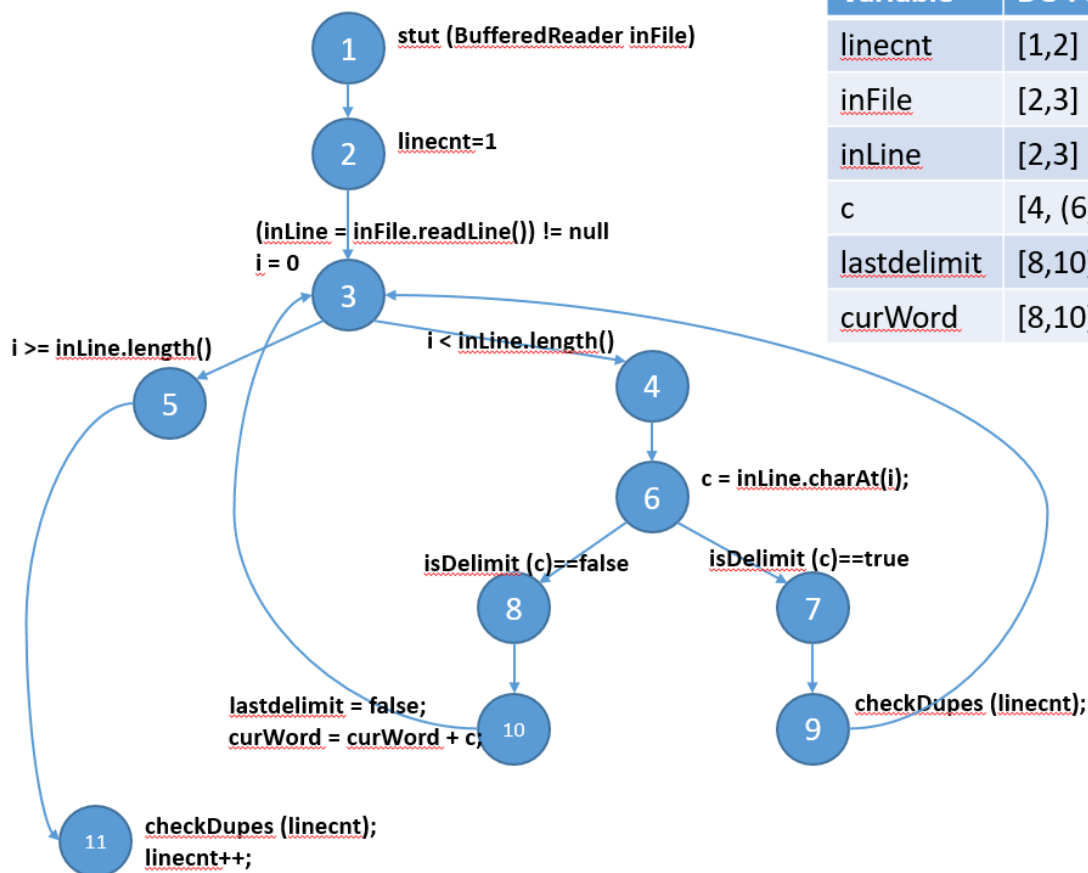
- (a) Draw control flow graphs for the methods in Stutter.
- (b) List all the call sites.
- (c) List all coupling du-pairs for each call site.
- (d) Create test data to satisfy All-Coupling Use Coverage for Stutter.

main()



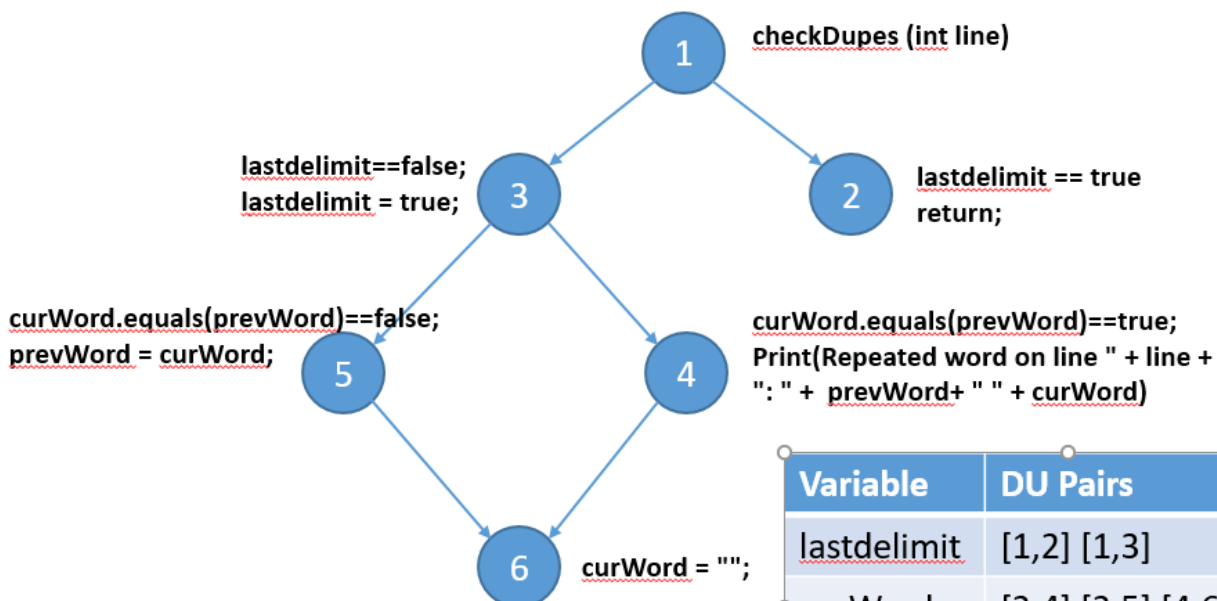
| Variable | DU Pairs |
|----------|-------------------------|
| args | [1,2] [1,4] [4,5] [4,6] |
| inFile | [2,3] [5,6] [7,8] |
| filename | [5,6] [7,8] |
| myfile | [7,8] |

stut()



| Variable | DU Pairs |
|--------------------------|--------------------------|
| <code>linecnt</code> | [1,2] [5,11] |
| <code>inFile</code> | [2,3] |
| <code>inLine</code> | [2,3] |
| <code>c</code> | [4, (6,7)] [4, (6,8,10)] |
| <code>lastdelimit</code> | [8,10] |
| <code>curWord</code> | [8,10] |

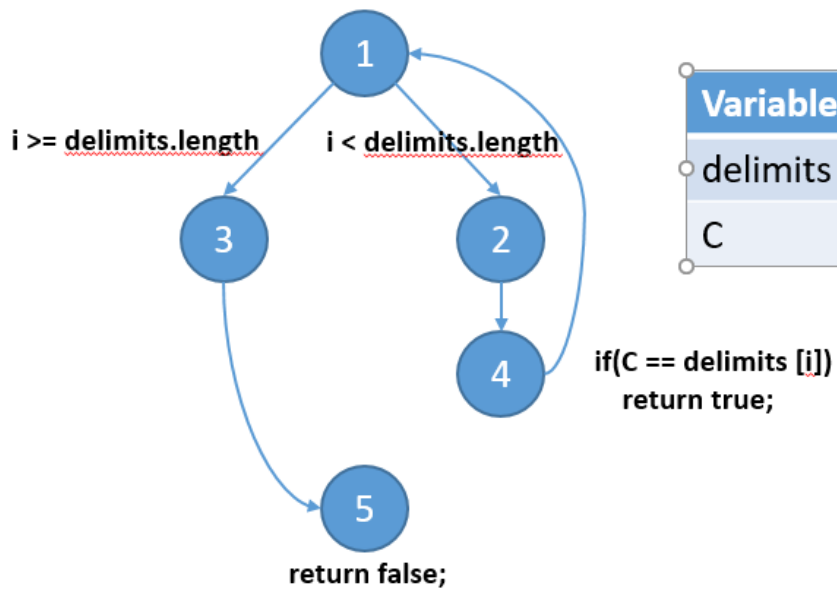
checkDups()



| Variable | DU Pairs |
|--------------------------|-------------------------|
| <code>lastdelimit</code> | [1,2] [1,3] |
| <code>curWord</code> | [3,4] [3,5] [4,6] [5,6] |
| <code>prevWord</code> | [3,4] [3,5] |
| <code>line</code> | [3,4] |

isDelimit()

isDelimit (char C)



| Variable | DU Pairs |
|----------|-------------|
| delimits | [1,2] [1,3] |
| C | [1,(2,4)] |