

The algorithm used to generate CGG:

- Determine the leaders, the first statements of basic blocks
  - The first statement in the sequence (entry point) is a leader
  - Any statement that is the target of a branch (conditional or unconditional) is a leader
  - Any statement immediately following a branch (conditional or unconditional) or a return is a leader 2.
- Find basic blocks
  - For each leader, its basic block is the leader and all statements up to, but not including the next leader or the end of the program.
- Edges are found with the help of IR generated
  - One edge is possible due to an increase in pc by 1 (normal execution)
  - Another edge is possible due to a branch statement

Instructions to run the file:

- Graphviz tool must be installed on the machine
- Call genCFG function to generate CFG
- After a run, dot file will be stored in the same path in 'dot files' folder