```
algorithm
    + algorithm()
    + ~algorithm()
    + run()
    + check()
    + reset()
           Λ
          dfs
# act dfs num
# act_comp_num
# tree
# dfs order
# dfs number
# reached nodes
# used
# roots
# comp_number
# preds
# back edges
# start
# whole_graph
+ dfs()
+ ~dfs()
+ run()
+ check()
+ reset()
+ start node()
+ start node()
+ scan whole graph()
+ scan whole graph()
+ calc comp num()
and 27 more...
dfs sub()
        mydfs
  # visit
  # height
  # current path
   + mydfs()
   + entry_handler()
+ leave_handler()
   + mydfs()
   + entry_handler()
+ leave_handler()
```