```
algorithm
      + algorithm()
      + ~algorithm()
      + run()
      + check()
      + reset()
       maxflow sap
# artif source target
# set vars executed
# max graph flow
# net source
# net target
# edges not org
# dist label
# edge_org
# back_edge exists
# back edge
# edge capacity
# edge max flow
+ maxflow sap()
+ ~maxflow_sap()
+ set vars()
+ set vars()
+ check()
+ run()
+ get_max_flow()
+ get max flow()
+ get_rem_cap()
+ reset()
# create artif source
 target()
# prepare run()
# comp dist labels()
# has an admissible arc()
# advance()
# augment()
# retreat()
# min_neighbour_label()
# free capacity()
# create back edge()
# comp_max_flow()
# restore graph()
```