```
Solver
# active size
# y
# G
# alpha status
# alpha
#Q
#QD
# eps
#Cp
# Cn
# p
# active set
#G bar
# I
# unshrink
+ Solver()
+ ~Solver()
+ Solve()
# get C()
# update alpha status()
# is upper bound()
# is_lower_bound()
# is free()
# swap index()
# reconstruct gradient()
# select working set()
# calculate rho()
# do shrinking()
be shrunk()
       Solver NU
 - si
 + Solver NU()
 + Solve()
 select working set()
 calculate rho()
 - be shrunk()
 - do shrinking()
```