```
Solver
# active size
# y
# G
# alpha_status
# alpha
# Q
#QD
# eps
#Cp
#Cn
# p
# active set
#G bar
#1
# 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()
```