```
pq_node
# pert_children
# pert leaves
# is endmost
# father
# mark
# sons
# pos
# Ipos
# n
# id
# up
# up id
# pq_node()
# ~pq_node()
# kind()
# partial()
# full()
# write()
# clear()
#P()
# Q()
# D()
# L()
       Λ
    p node
- full sons

    partial sons

- child count
- partial count

    full count

p_node()

    p_node()

partial()
full()

    kind()

write()
clear()
- P()
- Q()
- D()
- L()
```