```
Node
+ F value
+ G value
+ H value
+ type
+ pos_x
+ pos y
+ Node()
+ Node()
+ Node()
                       +parent
+ Node()
+ ~Node()
+ set parent()
+ set_start()
+ set goal()
+ set obstacle()
+ operator==()
+ operator=()
+ operator!=()
+ operator<()
+ operator>()
```