```
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>()
             +matrix
         Matrix
+ size
+ Matrix()
+ ~Matrix()
+ set G value()
+ get G value()
+ get_Movement_value()
+ get H value()
+ get F value()
+ print_types()
+ print G values()
+ print H values()
+ print_F_values()
+ print parents()
```