



N4N

```
#####
#  .@ #
# #.# #
#  $ #
#.$ $ ##
#  ###
#####
```

```
#####
#  .@ #
# #.# #
# $ $ #
#*   ##
#  ###
#####
```

```
#####
#  .@ #
# #.# #
# $ $ #
#*   ##
#  ###
#####
```

```
#####
#  * #
# #*# #
#  @ #
#*   ##
#  ###
#####
```

@+\$*#

BoardBoardBoard

step

SearchNodeBoardBoardActionAction{up,down,left,right}unwindSearchNode

$OSGC$

$(A,P)SG$

| $O \neq \emptyset$
| =
| $G \in G$

| =
| =

| $n \in$
| | $n \notin C \wedge n \notin O$
| | // nodes in O sorted by heuristic value
| | $n=nG$
| | On

pointint

|
| ←
| ←
| ← ∅
| ← null
|
| |
| | ←
| | ∈ ∧ ∈ ←
| ≠ null
| ←
| ←
| ←
| ←

B
B

← ∅ *Bclosed*
Pclosed
| *P* =

| *P* = *P* ∈ *closed*
