

-VARIABLE INFO-

act - VAR - {'We', 'Ea', 'No', 'So', 'XX'}
new - VAR - BOOLEAN
x_d - VAR - [0, 9]
y_d - VAR - [0, 9]
x_g - VAR - [0, 9]
y_g - VAR - [0, 9]
net - NEURAL - {'We', 'Ea', 'No', 'So', 'XX'}
obstacles - array - DEFINE - INT

-INITIAL VALUES-

act \in {'XX'}
new \in { \perp }
x_d \in {0}
y_d \in {0}
x_g \in {*x_d*}
y_g \in {*y_d*}
NN(*x_d*, *y_d*, *x_g*, *y_g*)
obstacles := [...]

-ENVIRONMENT UPDATES-

x_g \in ([0, 9])
if *new* else
{*x_g*}
y_g \in ([0, 9])
if *new* else
{*y_g*}
x_d \in ({*max*(0, (*x_d* - 1)))}
if (*act* = 'We') else
({*min*(9, (*x_d* + 1)))}
if (*act* = 'Ea') else
{*x_d*}
y_d \in ({*max*(0, (*y_d* - 1)))}
if (*act* = 'So') else
({*min*(9, (*y_d* + 1)))}
if (*act* = 'No') else
{*y_d*}
{*y_d*})

