

## Homework #1

### 1. Formulation of the problem

Deciding how to represent states  
So (initial state) : A

A  $\rightarrow$  Node Visited

$S_i$  (state i)

A N N N

where:

$x1 \rightarrow$  specific arbitrary node

$S_g$  (goal state)

A B N N N A

(for edge starting with A)

A B N N N

(for edge ending with any node)

### 2 Production Rules .

1. If adjacent nodes are similar to previous adjacent nodes i.e. A B C D B A (for example) then close path.



### 3. Search space

