

```
depth_first_search([Node|_]):-
    goal_state(Node),
    write(Node),
    write(' is solution'),nl.
depth_first_search([Node|Nodes]):-
    write(Node),nl,
    gather(Node,Successors),
    append(Successors,Nodes,NewNodes),
    depth_first_search(NewNodes).
```

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breadth_first_search([Node|_]):-
    goal_state(Node),
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    write(Node),nl,
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    append(Nodes,Successors,NewNodes),
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