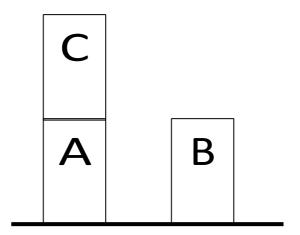
## **ARTIFICIAL INTELLIGENCE COMP813 M7**

## Al Planning Exercise

Given the blocks as arranged below, we want a plan to re-arrange it so that On(A,B), On(B,C) and OnTable(C) are true. Show the details of your planning process and your justification for why each operator is selected.



## Furthermore, the plan so far is:

Four operators are available for you:

Stack(x,y) Unstack(x,y)

P: Clear(y) & Holding(x) P: On(x,y) & Clear(x) & Armempty

D: Clear(y) & Holding(x)

A: Armempty & On(x,y)

D: On(x,y) & Armempty

A: Holding(x) & Clear(y)

Pickup(x)
P: Clear(x) & Ontable(x) & Armempty
P: Holding(x)
D: OnTable(x) & Armempty
D: Holding(x)

A: Holding(x) A: OnTable(x) & Armempty