FINAL REVIEW

Wednesday, Dec 06, 2017

Regular class

FINAL EXAM

Open book and notes

Saturday, Dec 9, 2017

8:00 am - 12:00 pm (4 hours)

LW-836

Assignment 10. Due 11/13/17.

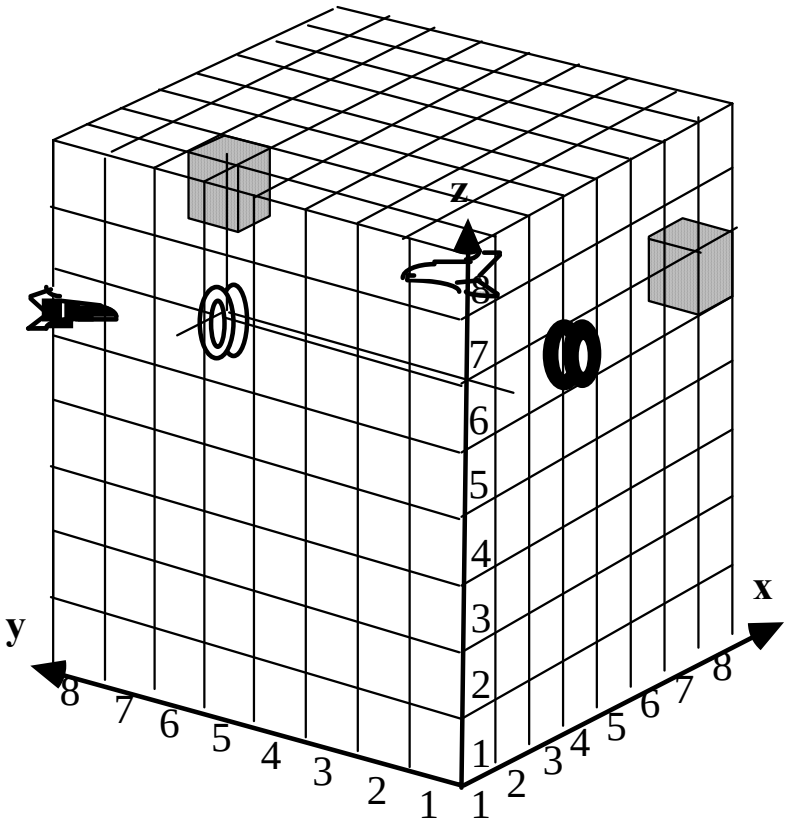
21. Construct a 3D/4A totally concurrent problem similar to the serial 3D/4A problem and totally concurrent 2D/4A considered in class (with different start state). Your problem should have a draw as an optimal strategy.

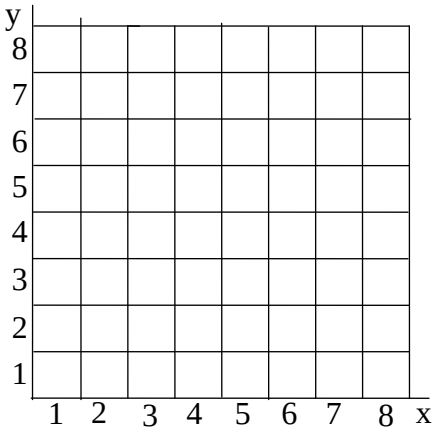
Show the start state (picture) and a reasonable search tree, which could be generated employing LG tools. If necessary, you can show a number of other states and Zones to explain your tree.

3D Model for 4 Agents

(More details can be found in Chapter 4 of the book.)

3D/4A Problem

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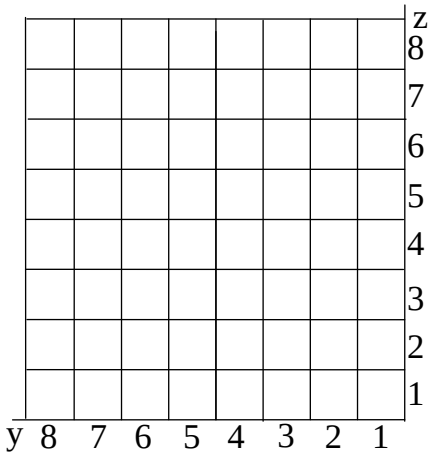
z
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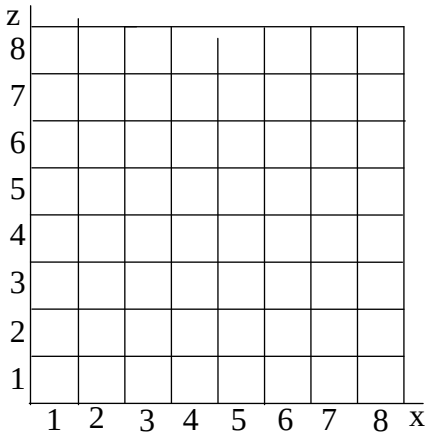
y 8 7 6 5 4 3 2 1


z
8
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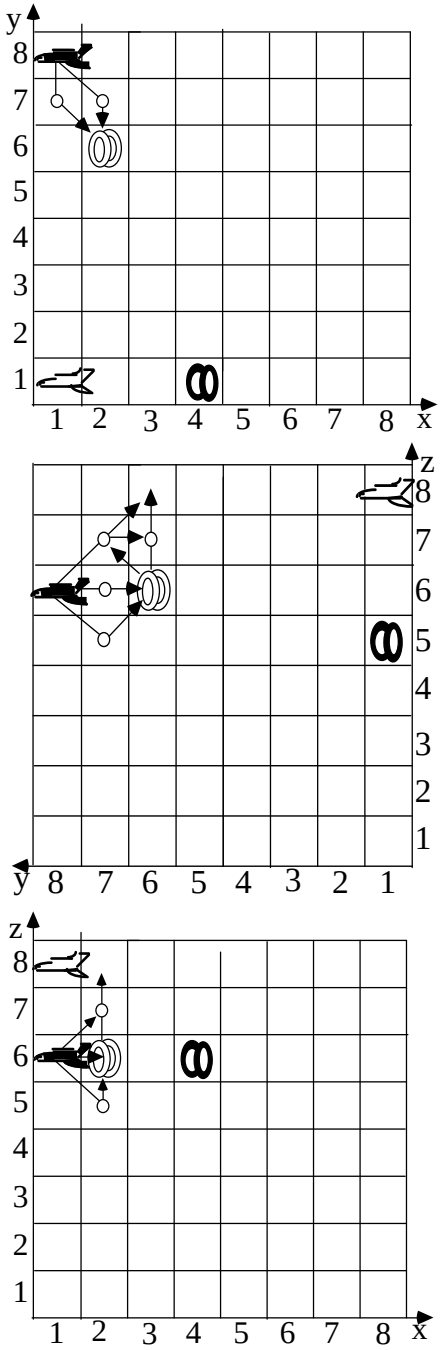
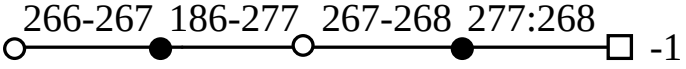
1 2 3 4 5 6 7 8 x

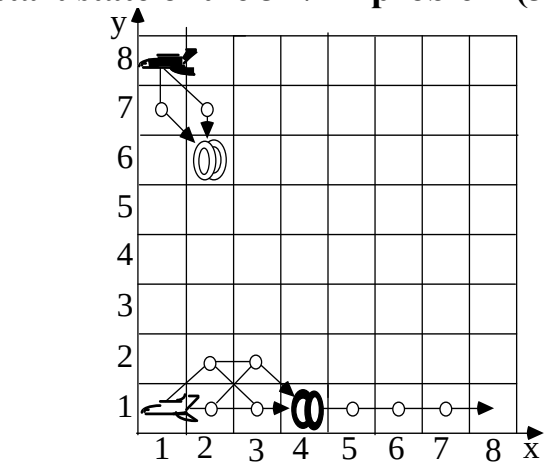
Interpretation of Zones generated within the horizon 2 in the start state of the space robotic system (3 projections)



Search tree within the horizon 2.



Interpretation of Zones generated within the horizon 5 in the start state of the 3D/4A problem (3 projections)



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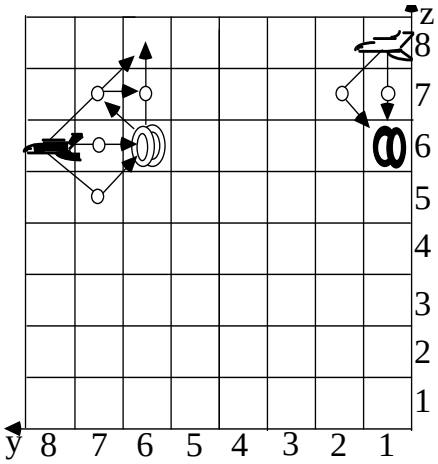
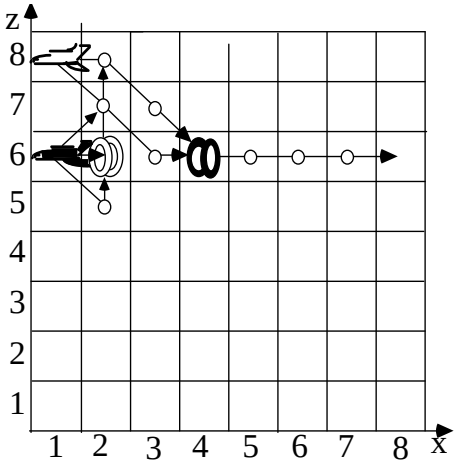
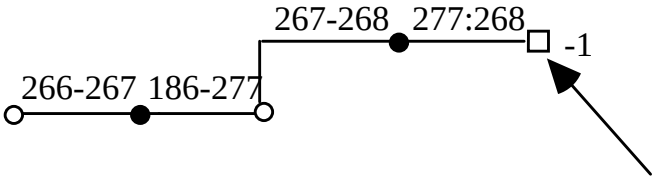
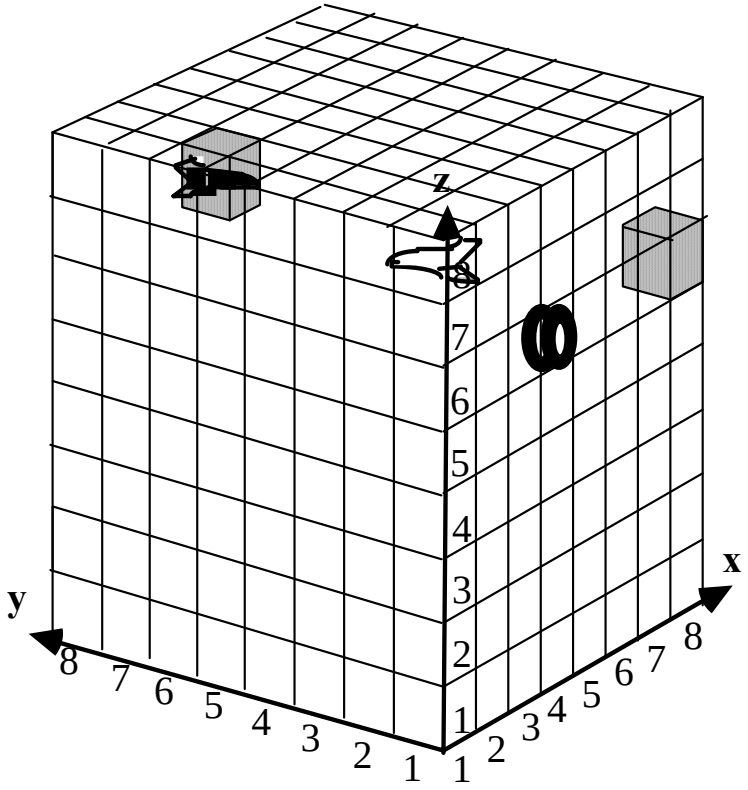


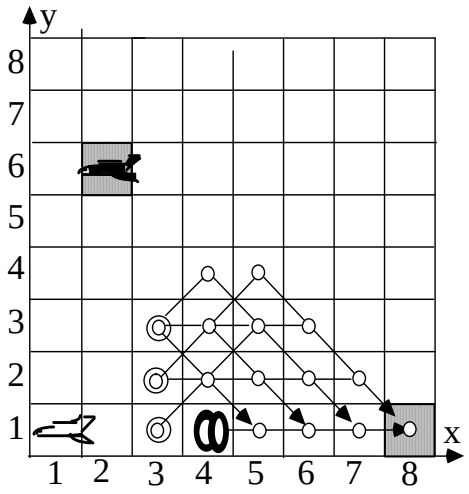


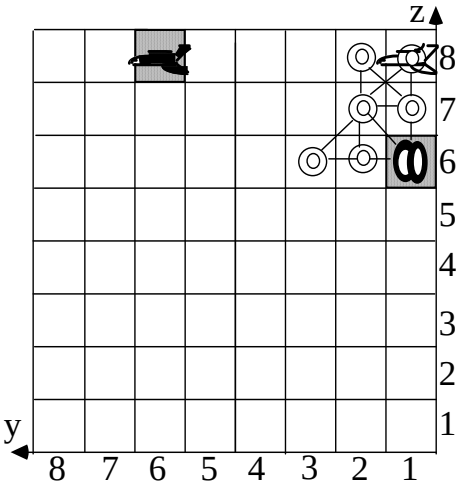


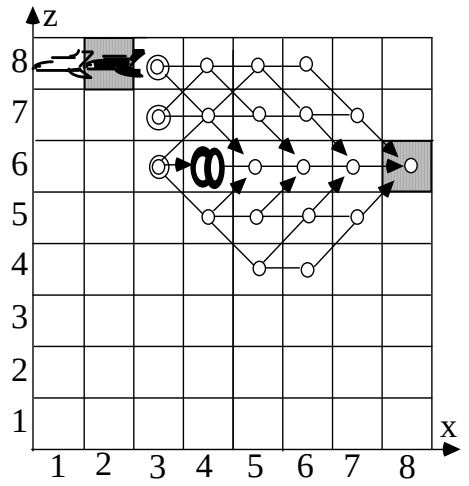
The terminal state where the domination Zone from 118 to 268 was detected.

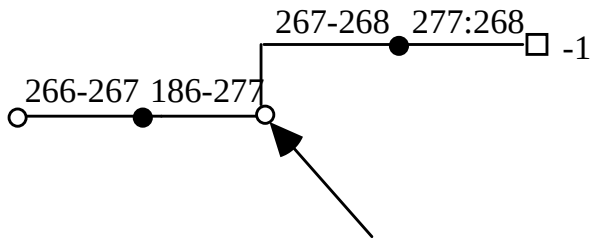


The terminal state with gateways.

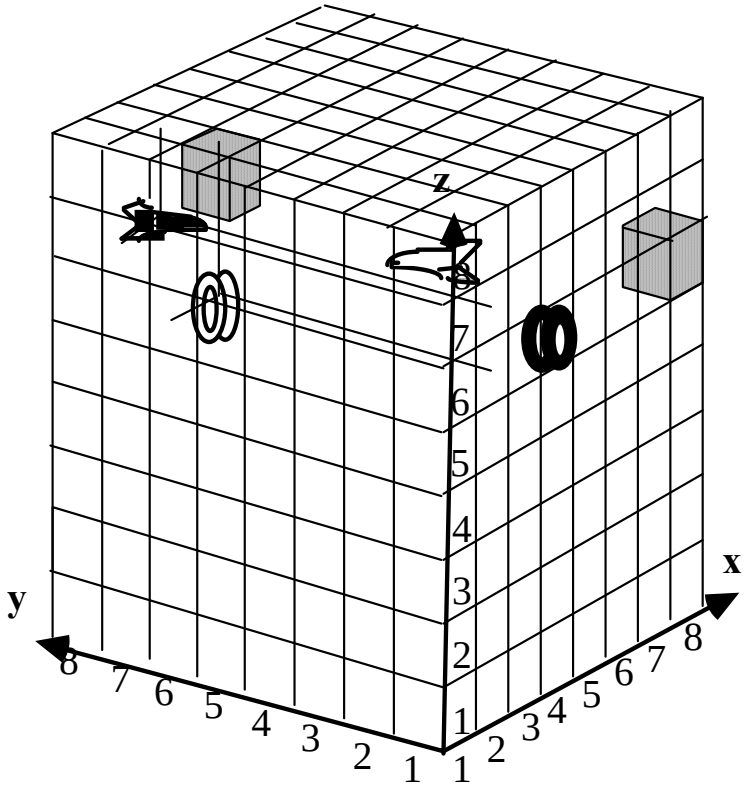




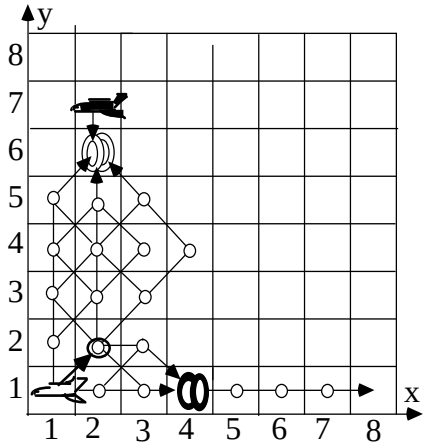


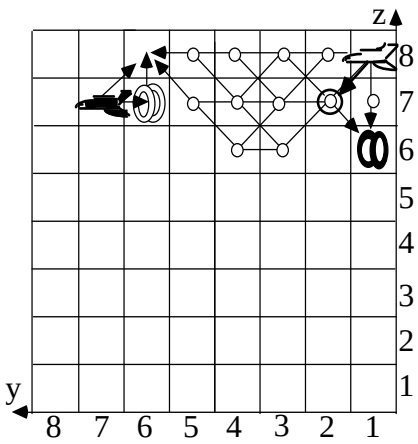


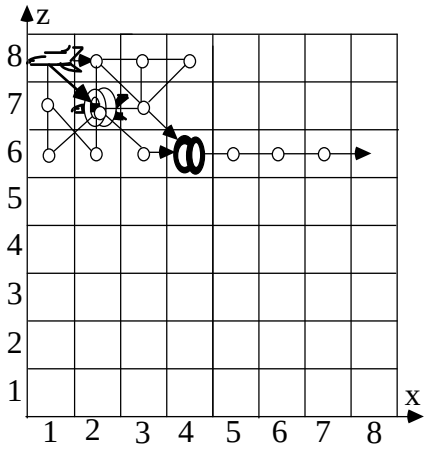
The state where the domination Zone from 118 to 268 was activated.

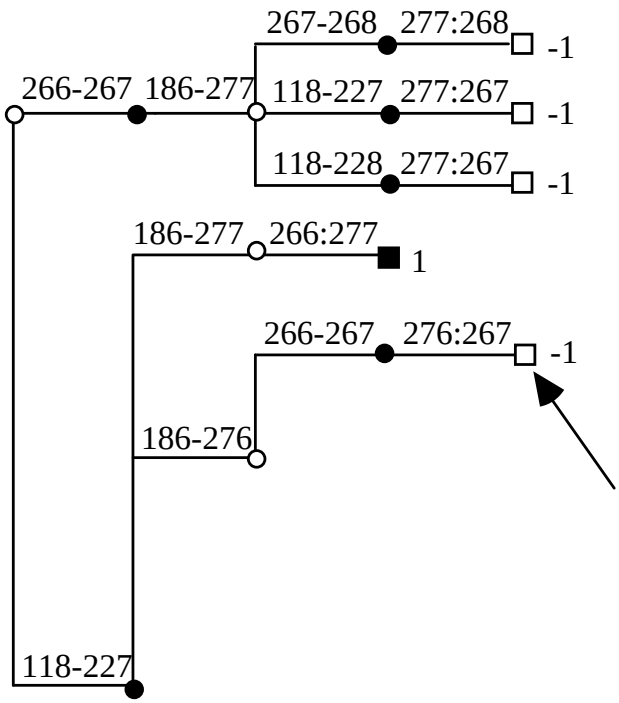


Zones in the state where the domination Zone from 118 to 268 was activated.

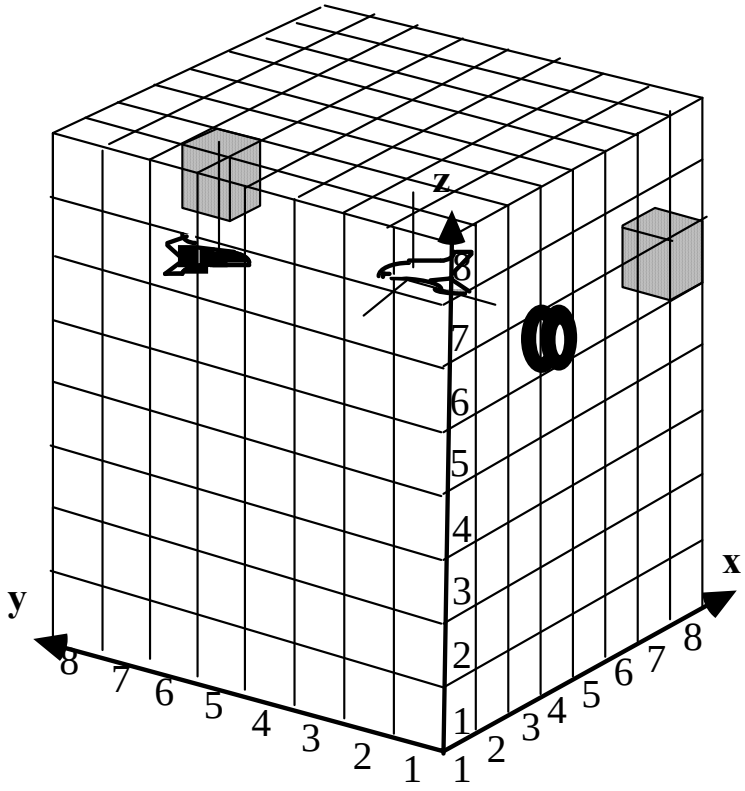


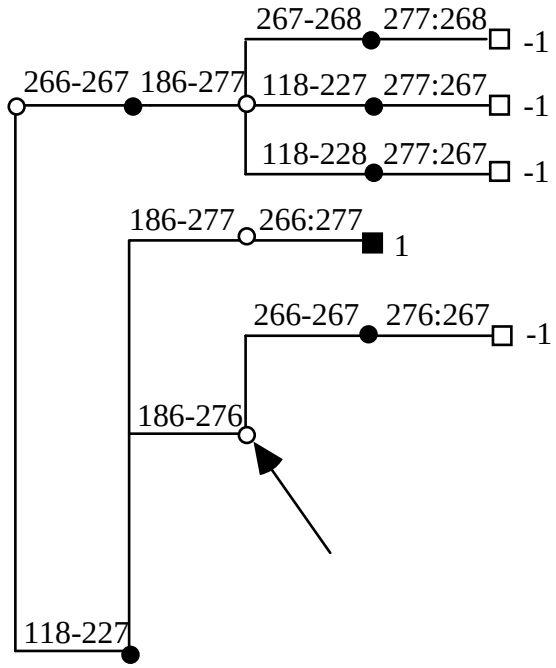




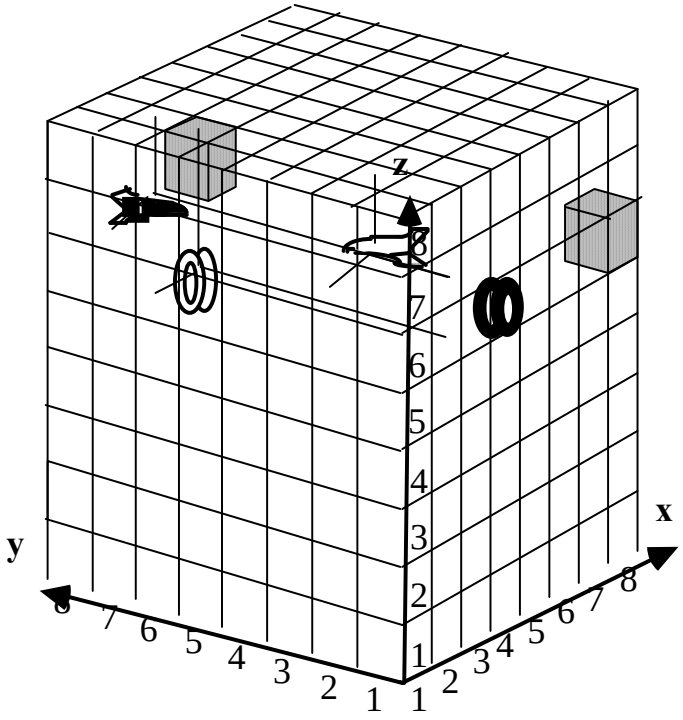


The terminal state where the domination Zone from 227 to 267 was detected.

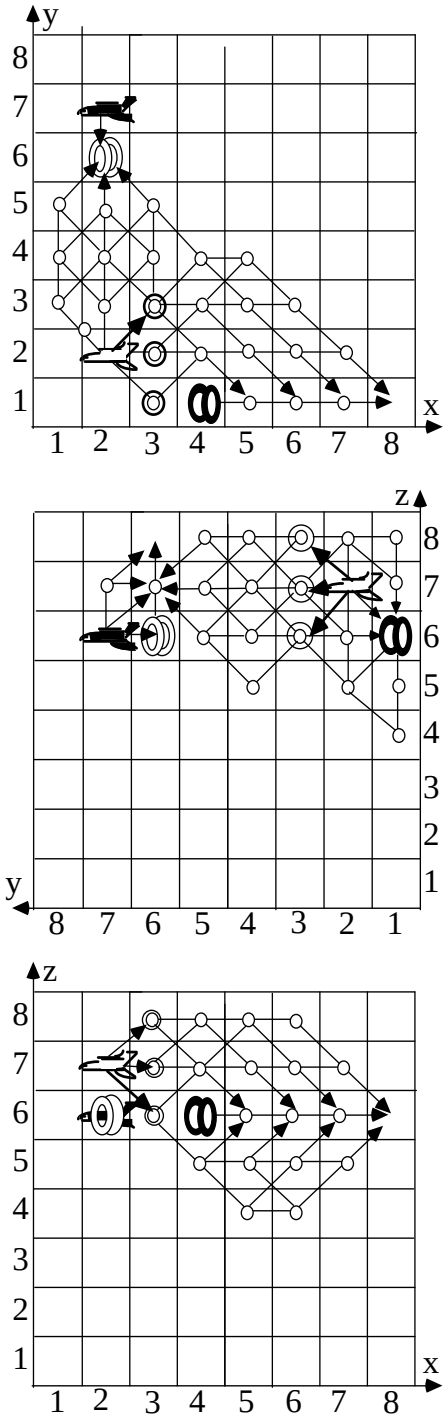
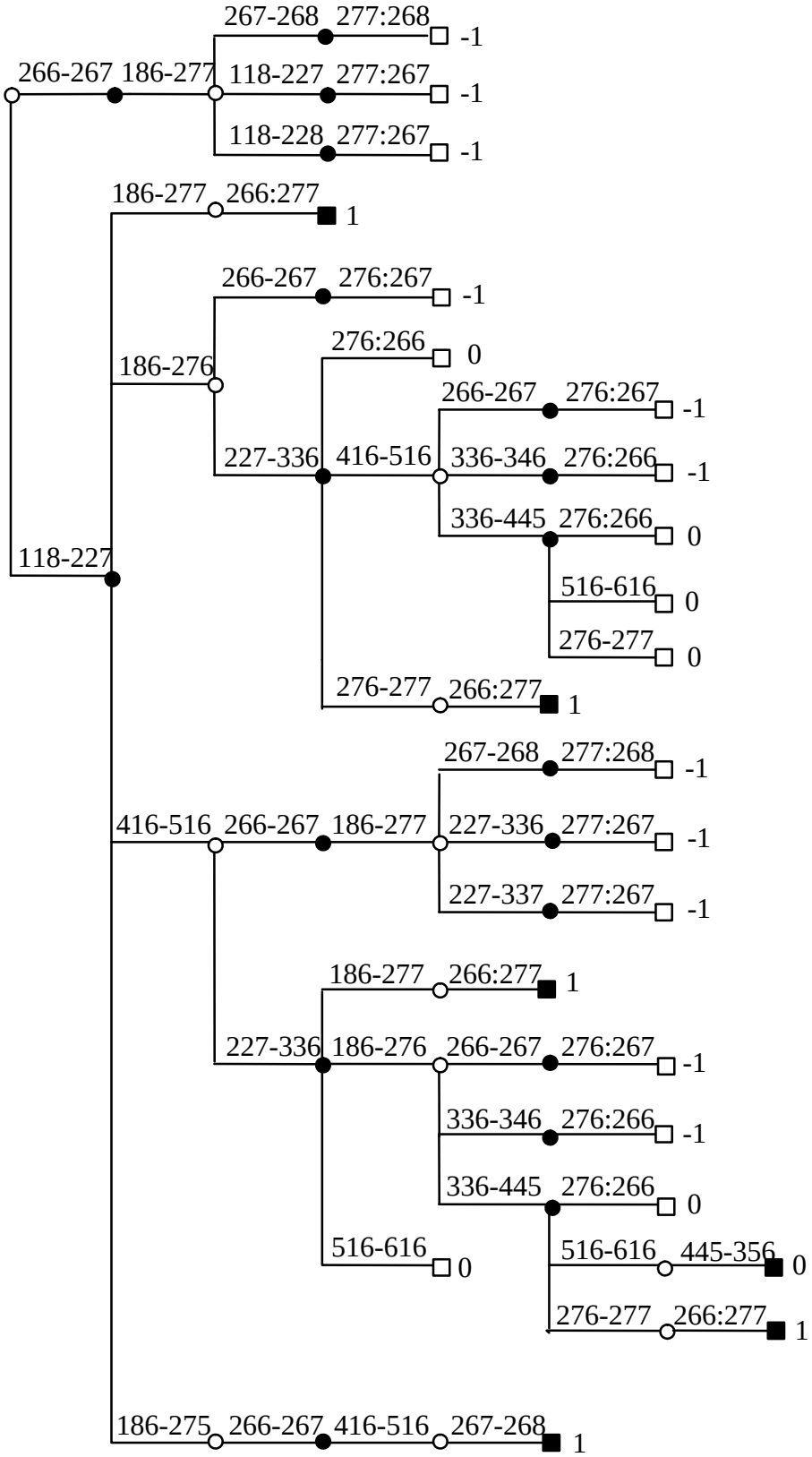




The state where the domination Zone from 227 to 267 was activated.



Zones in the state where the domination Zone from 227 to 267 was activated.



Complete search tree for the space navigation problem