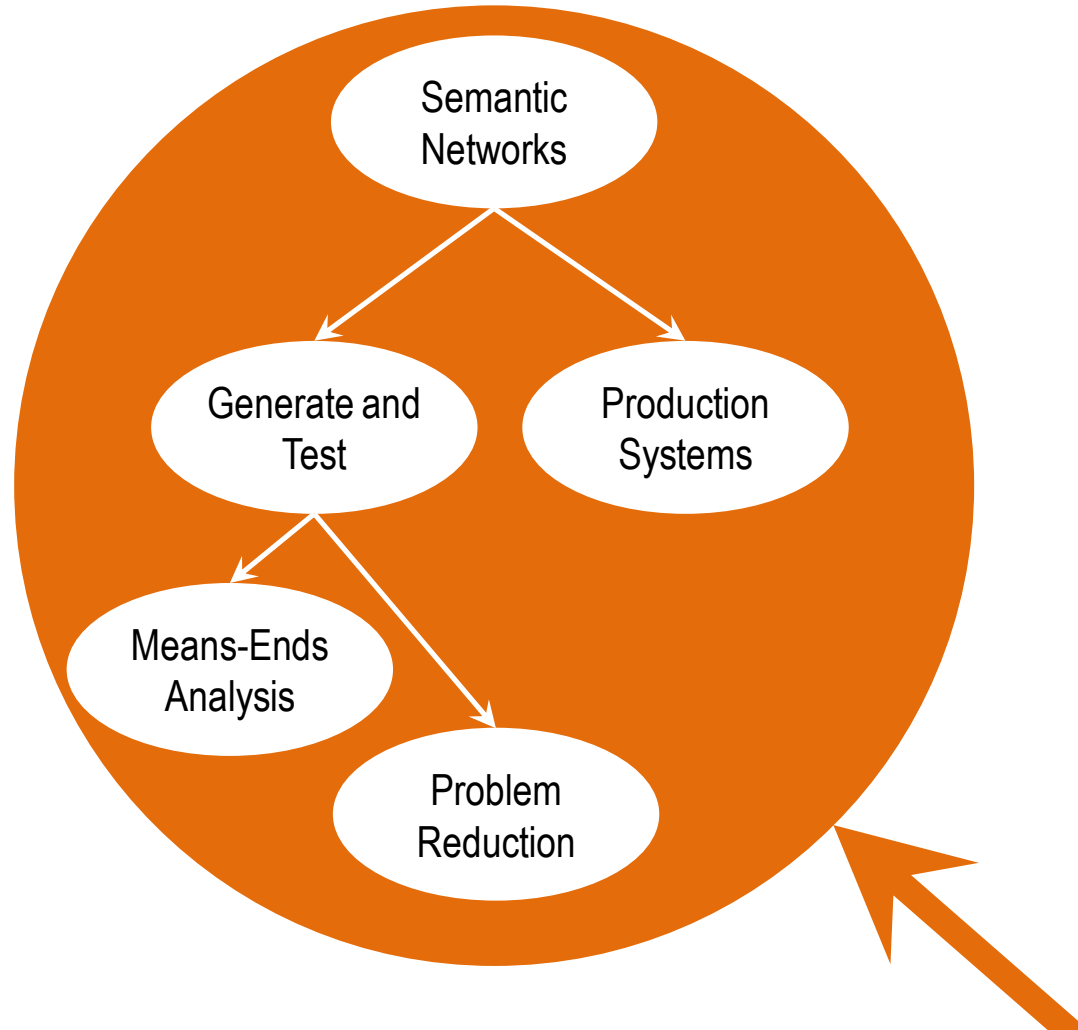
A large, solid orange circle is centered on a white background. Inside the circle, the text "Generate and Test" is written in white, sans-serif font, arranged in two lines.

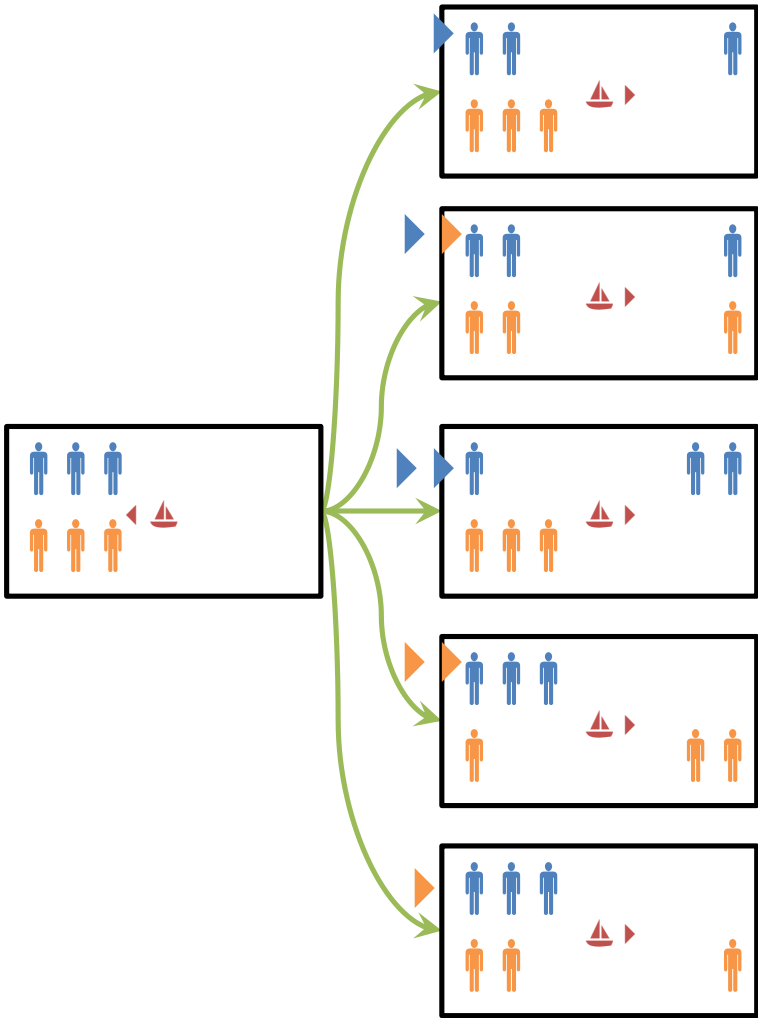
Generate
and Test

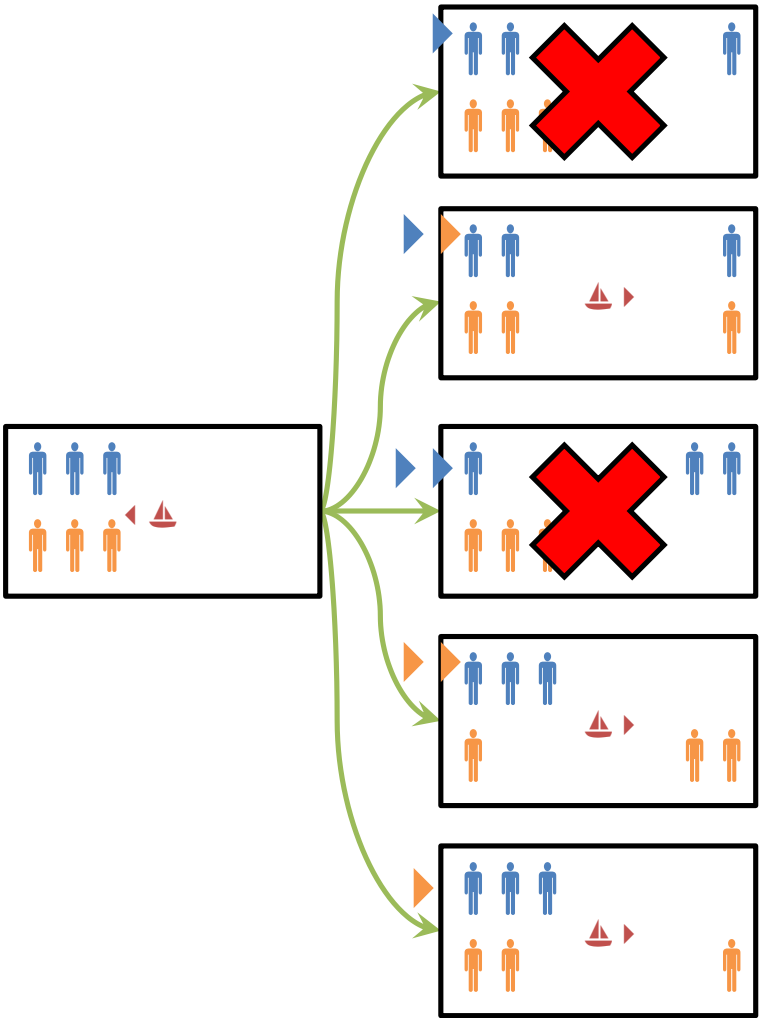
Fundamentals

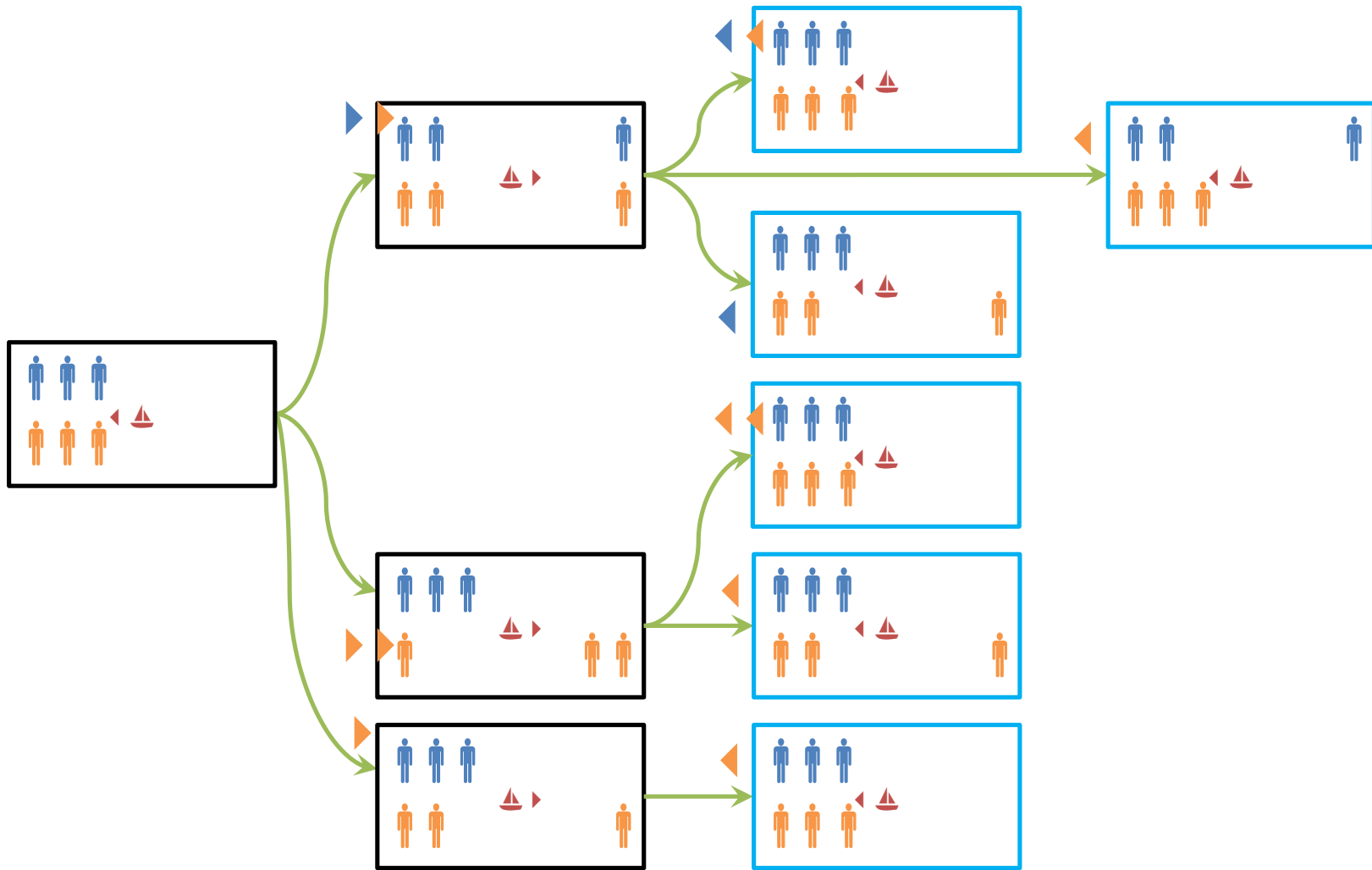


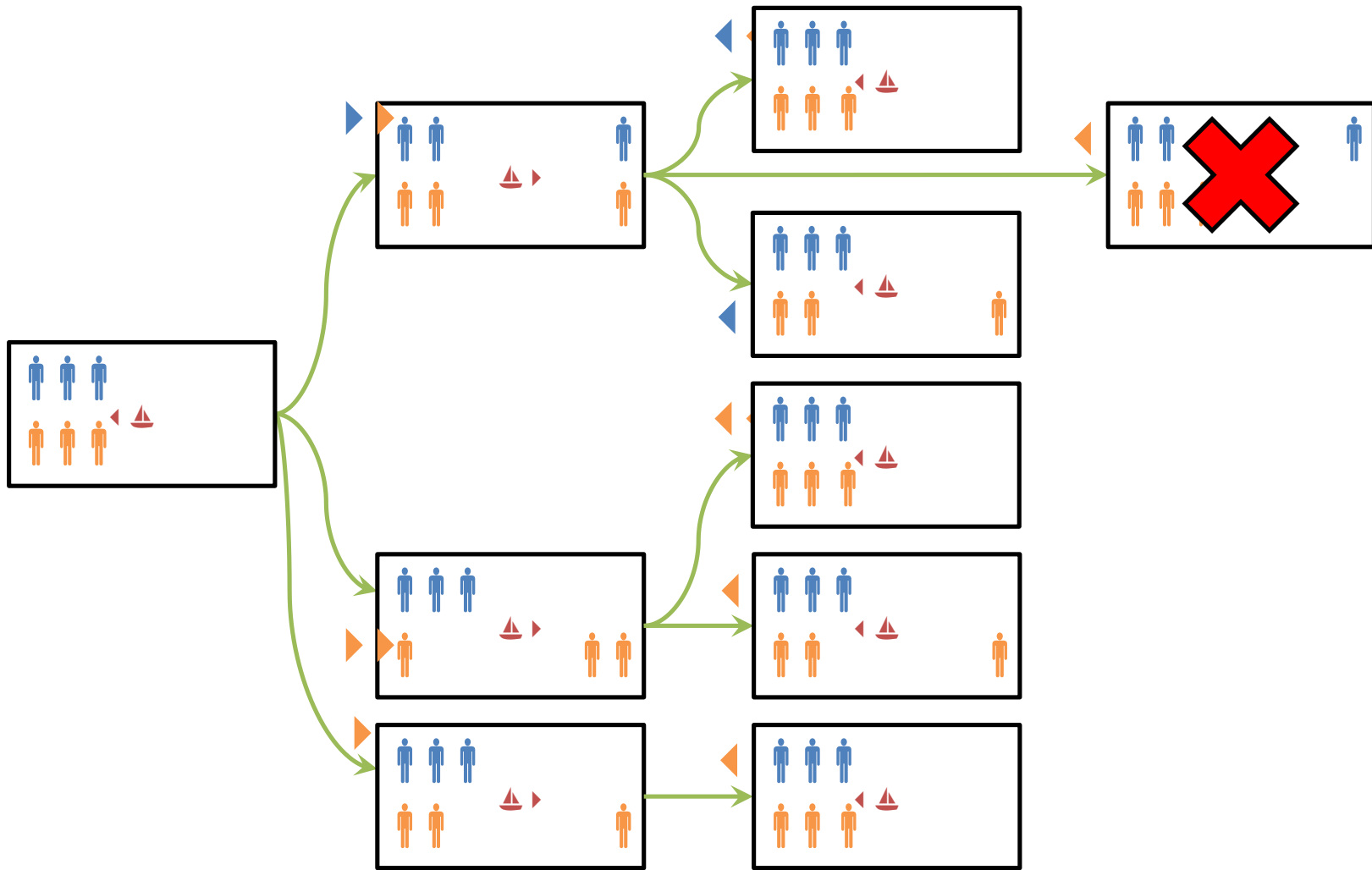
Lesson Preview

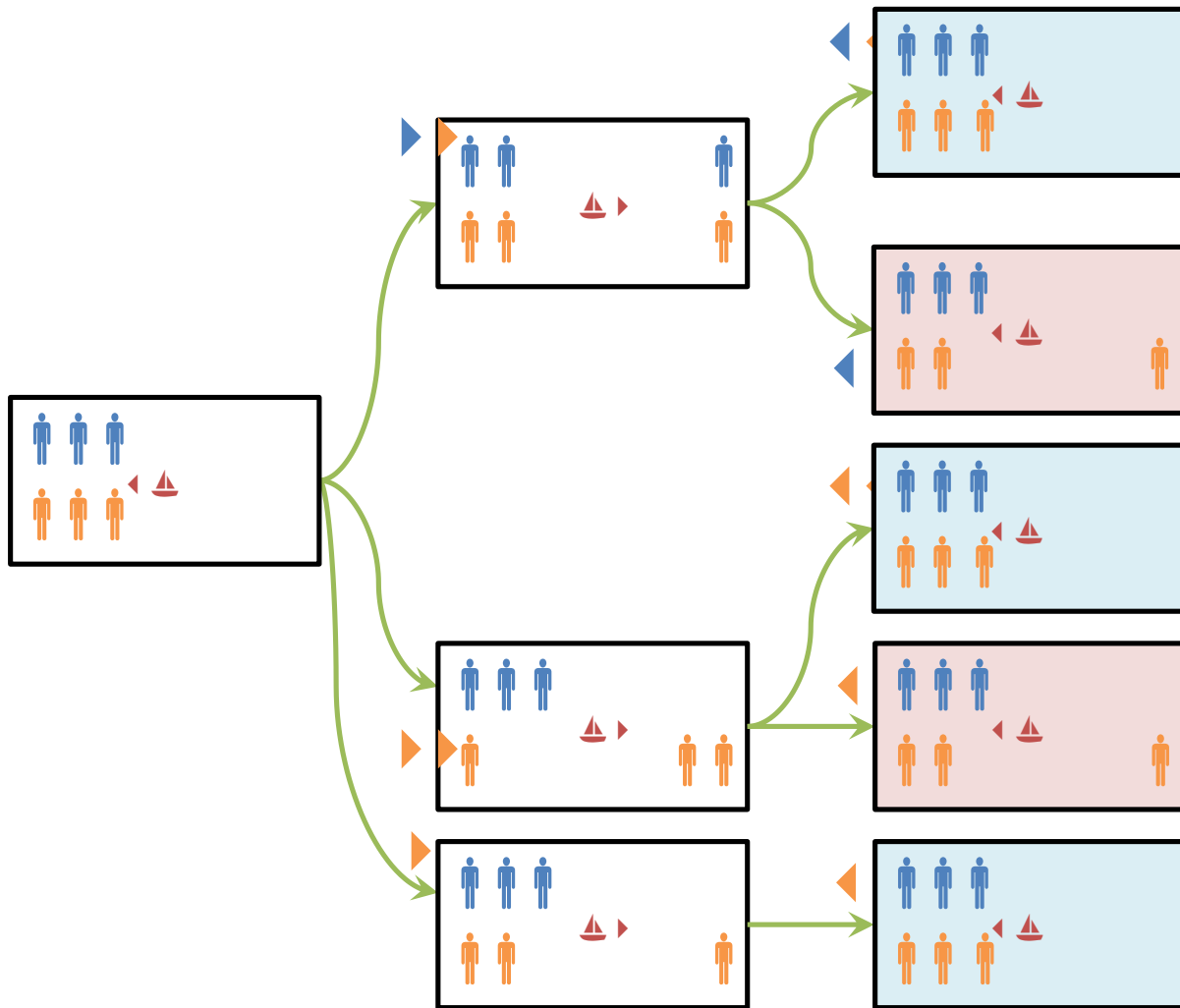
- Generate and test method
- Smart testers
- Smart generators
- Generate and test for Raven's Progressive Matrices

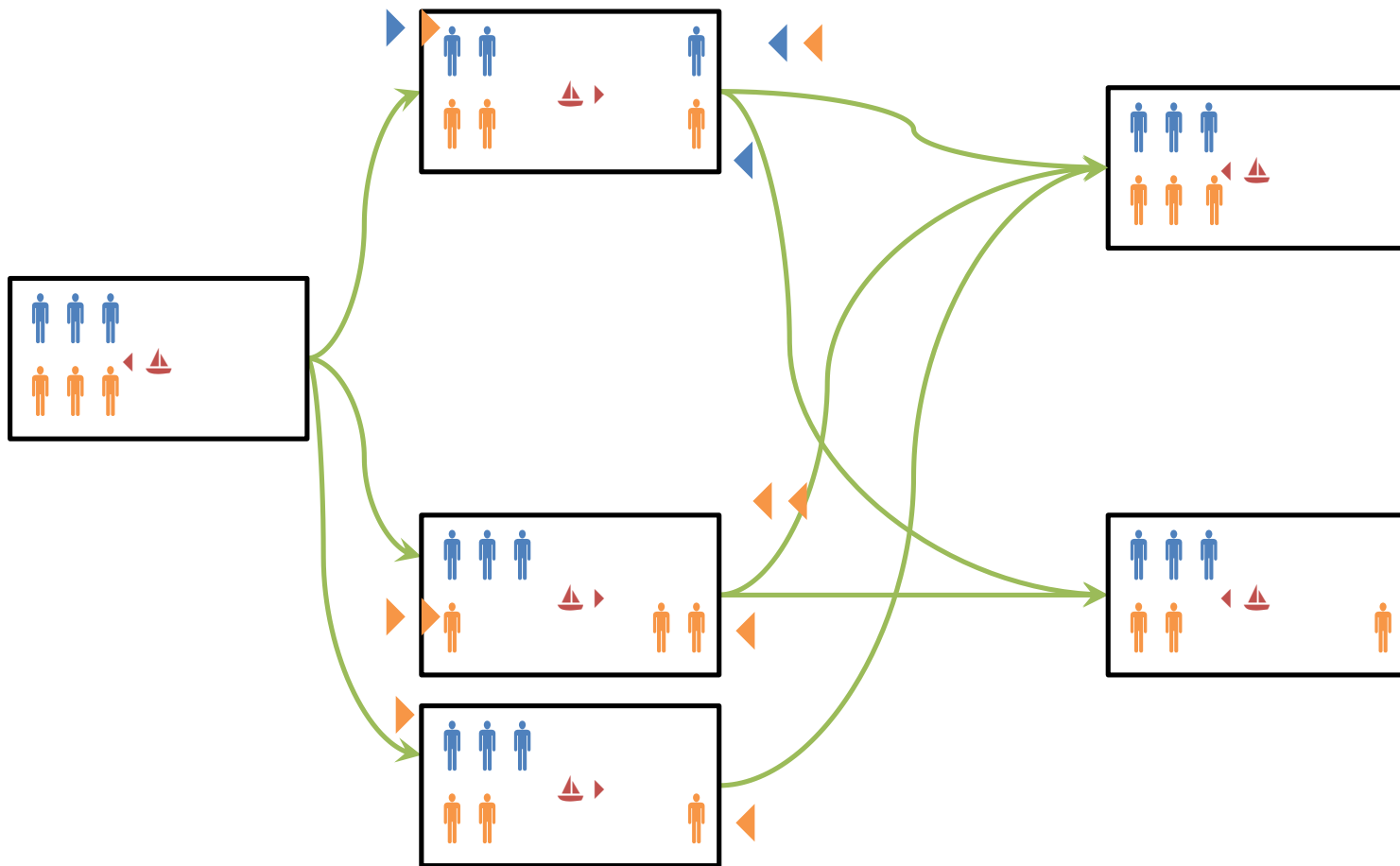


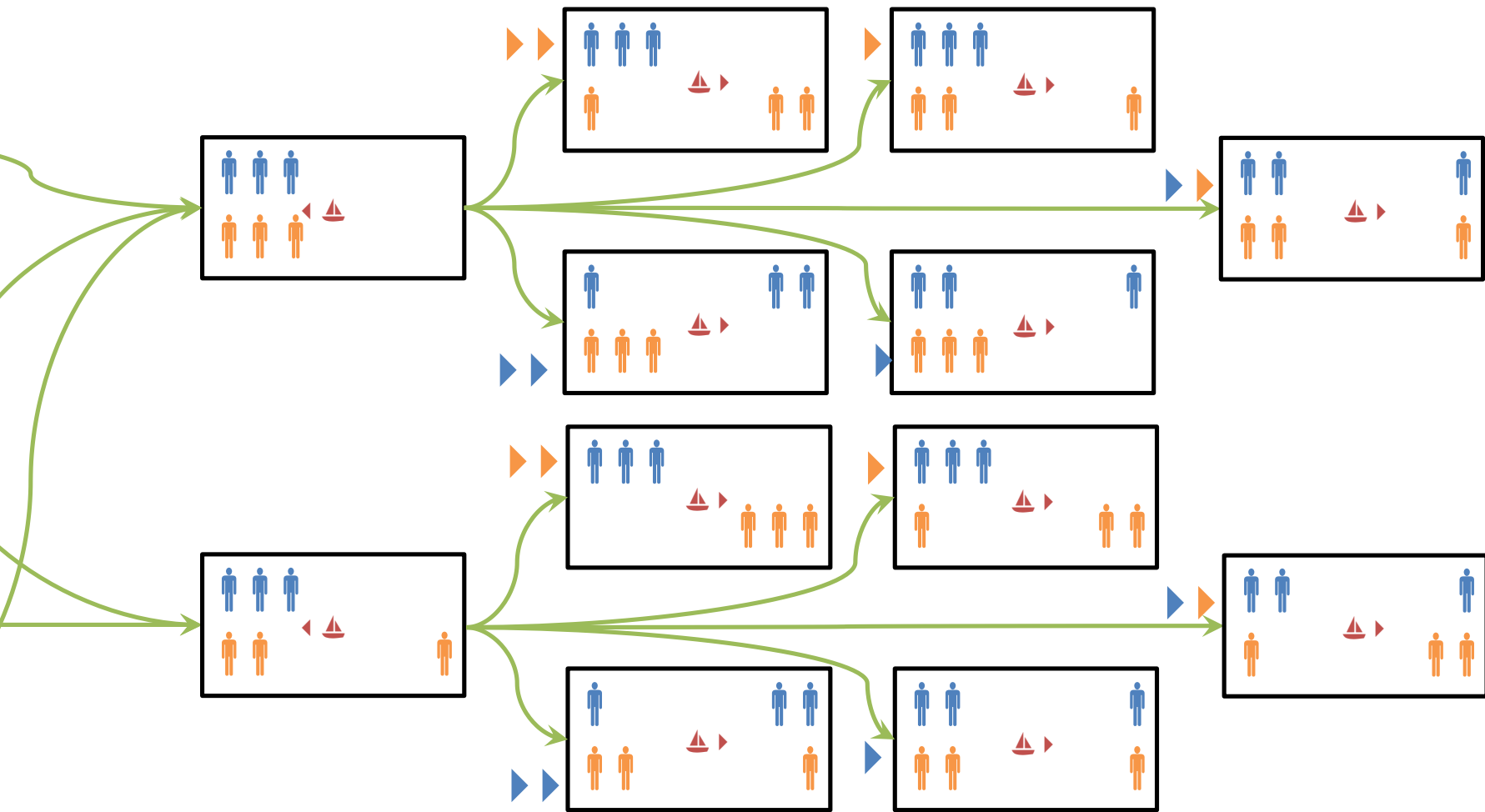


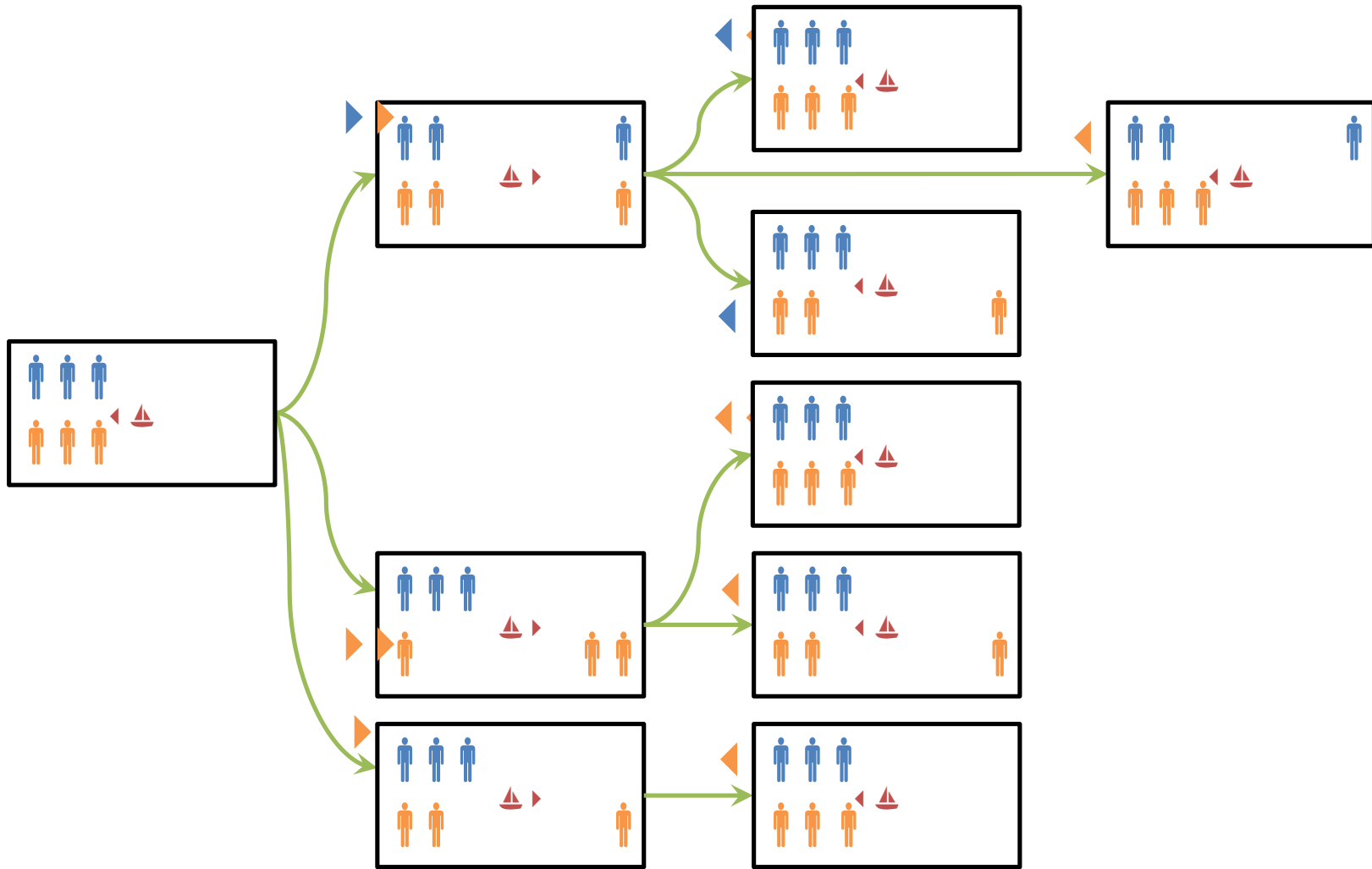


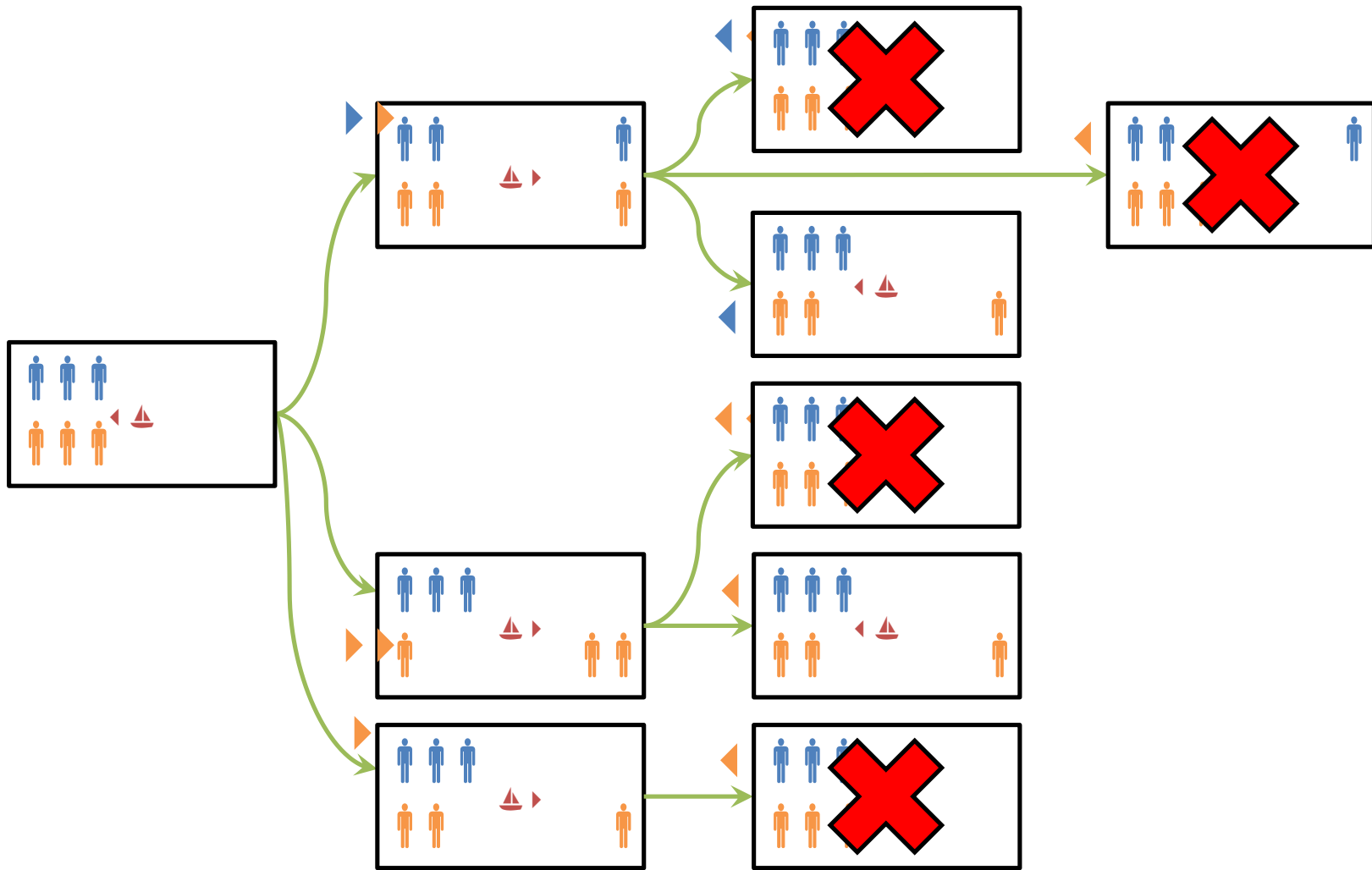


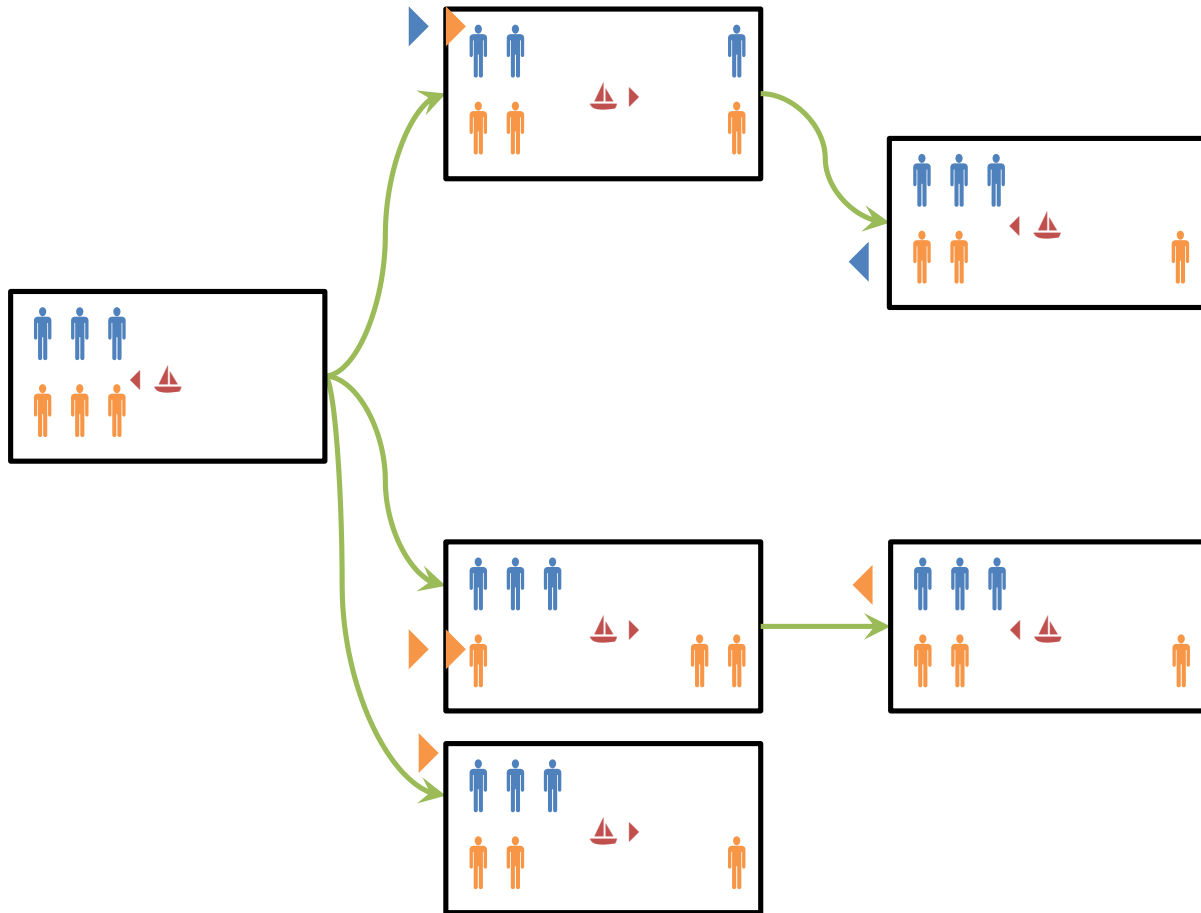


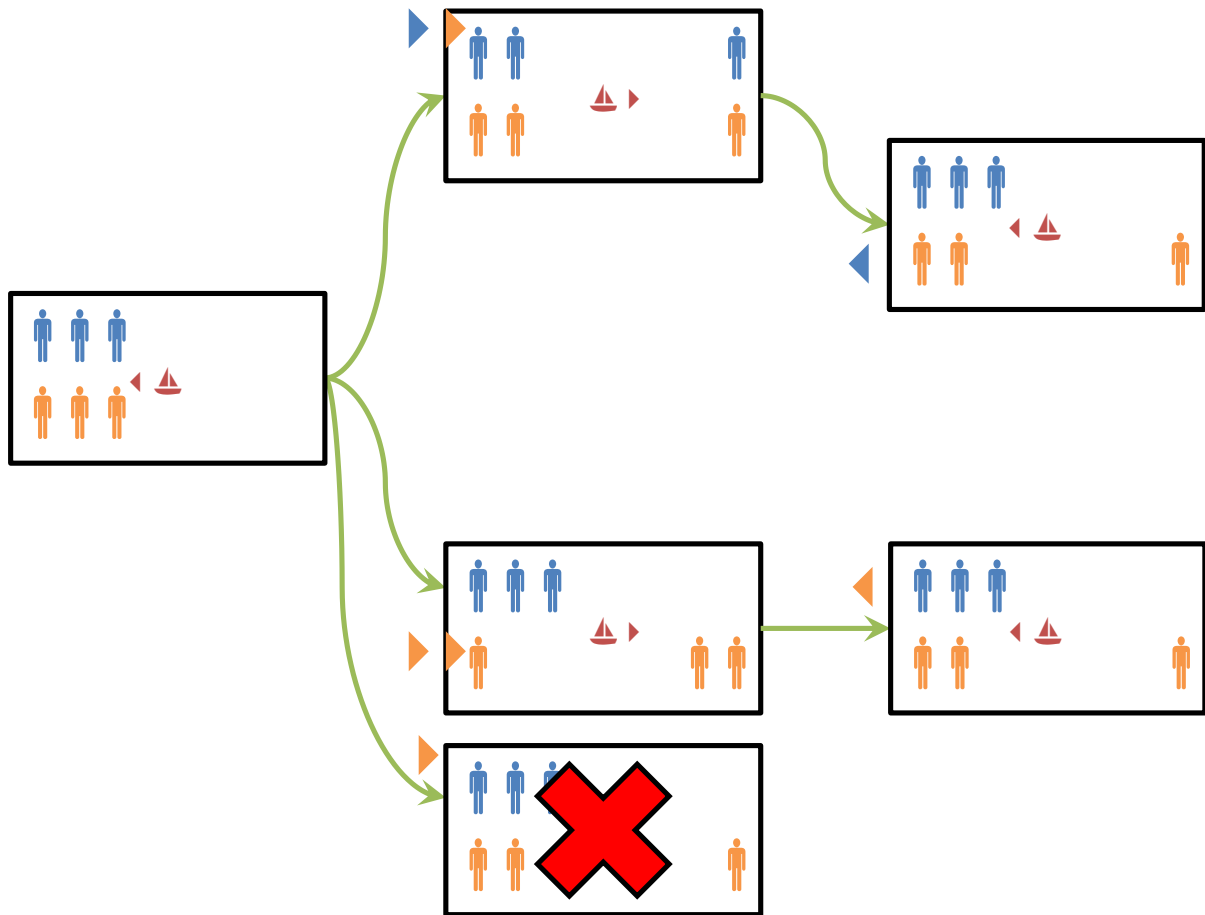


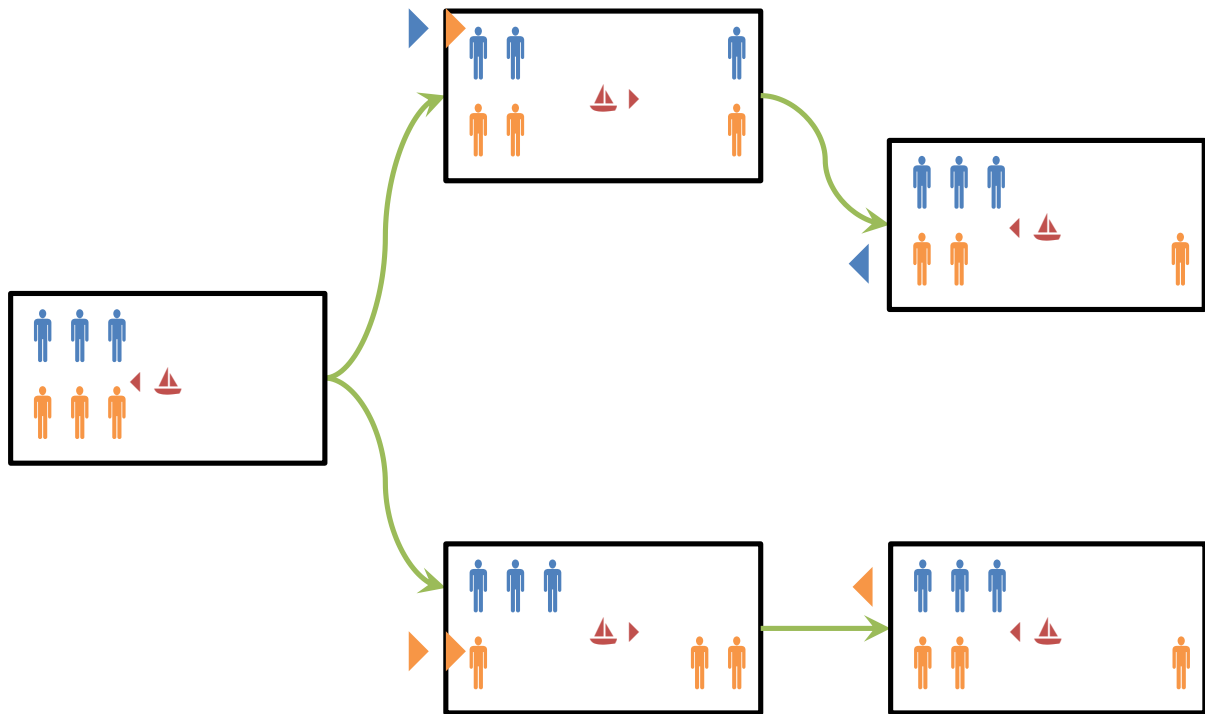


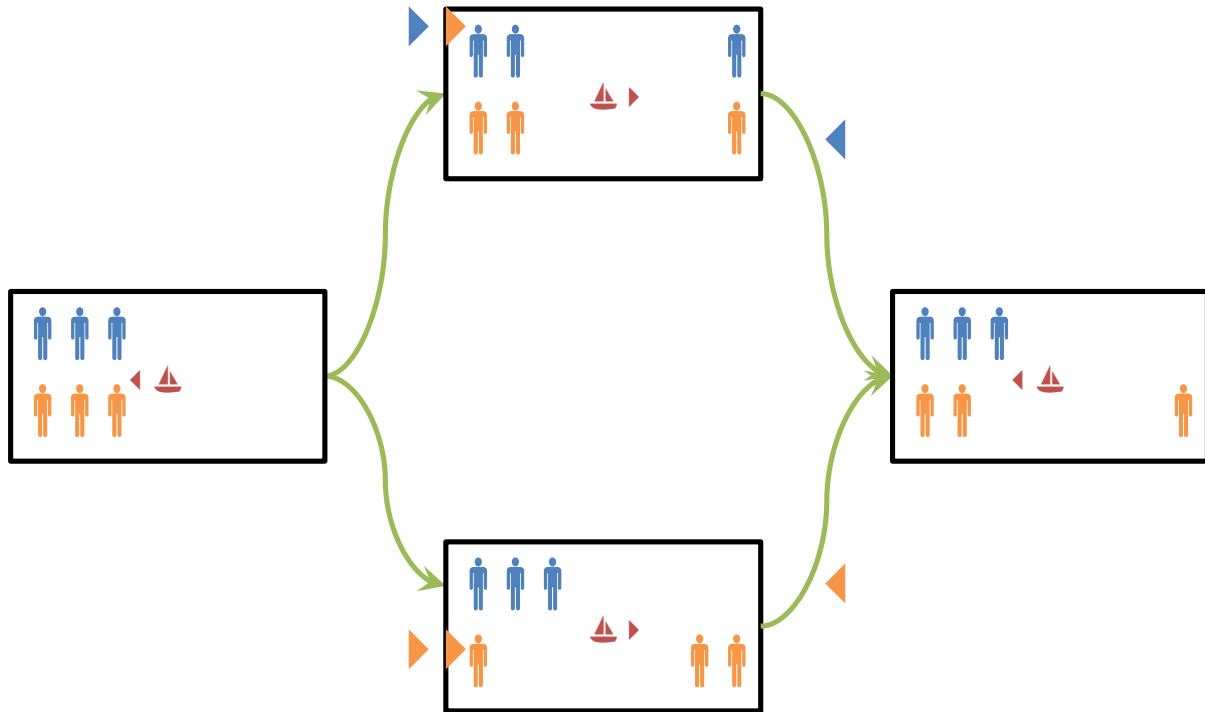


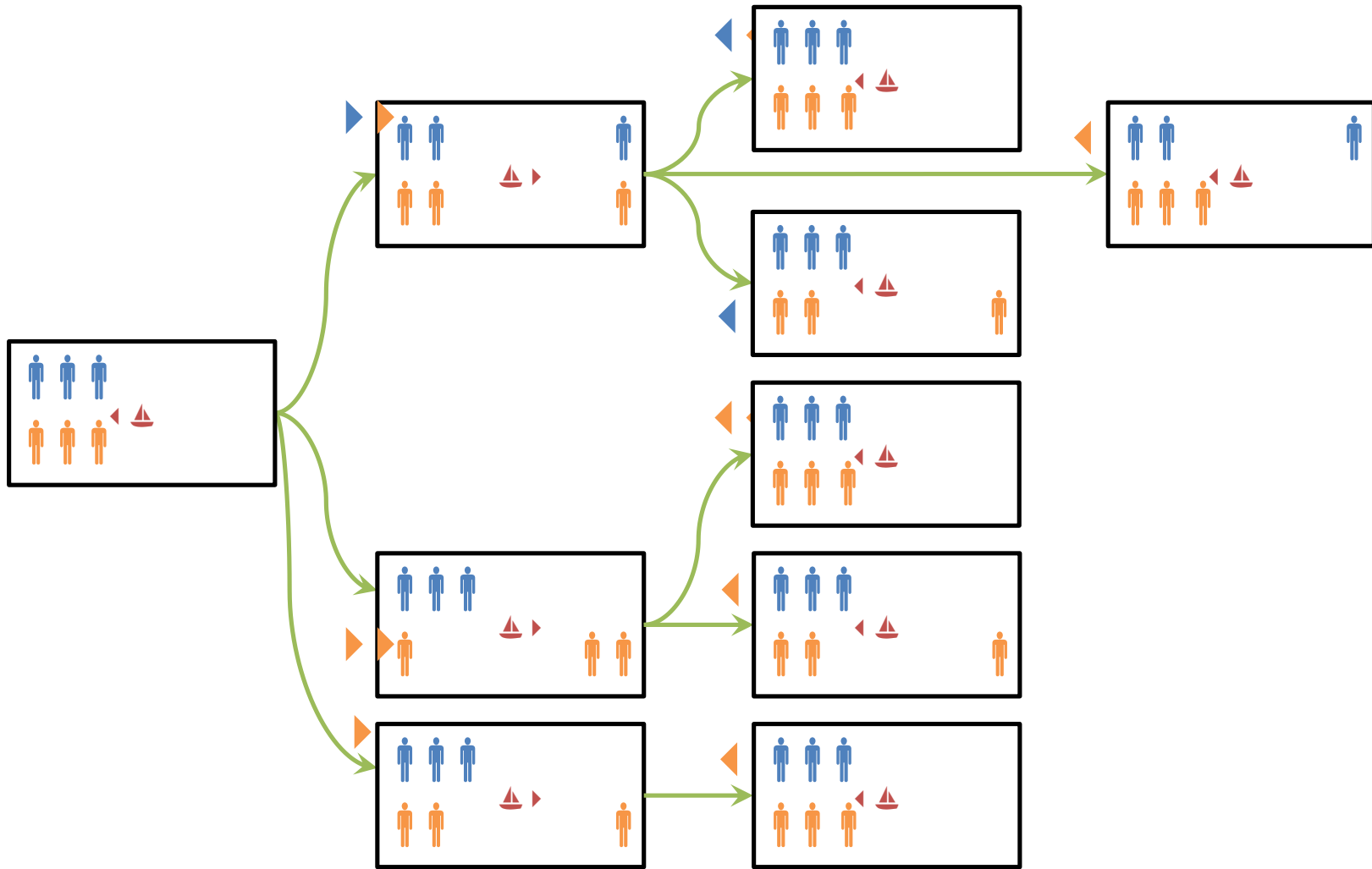


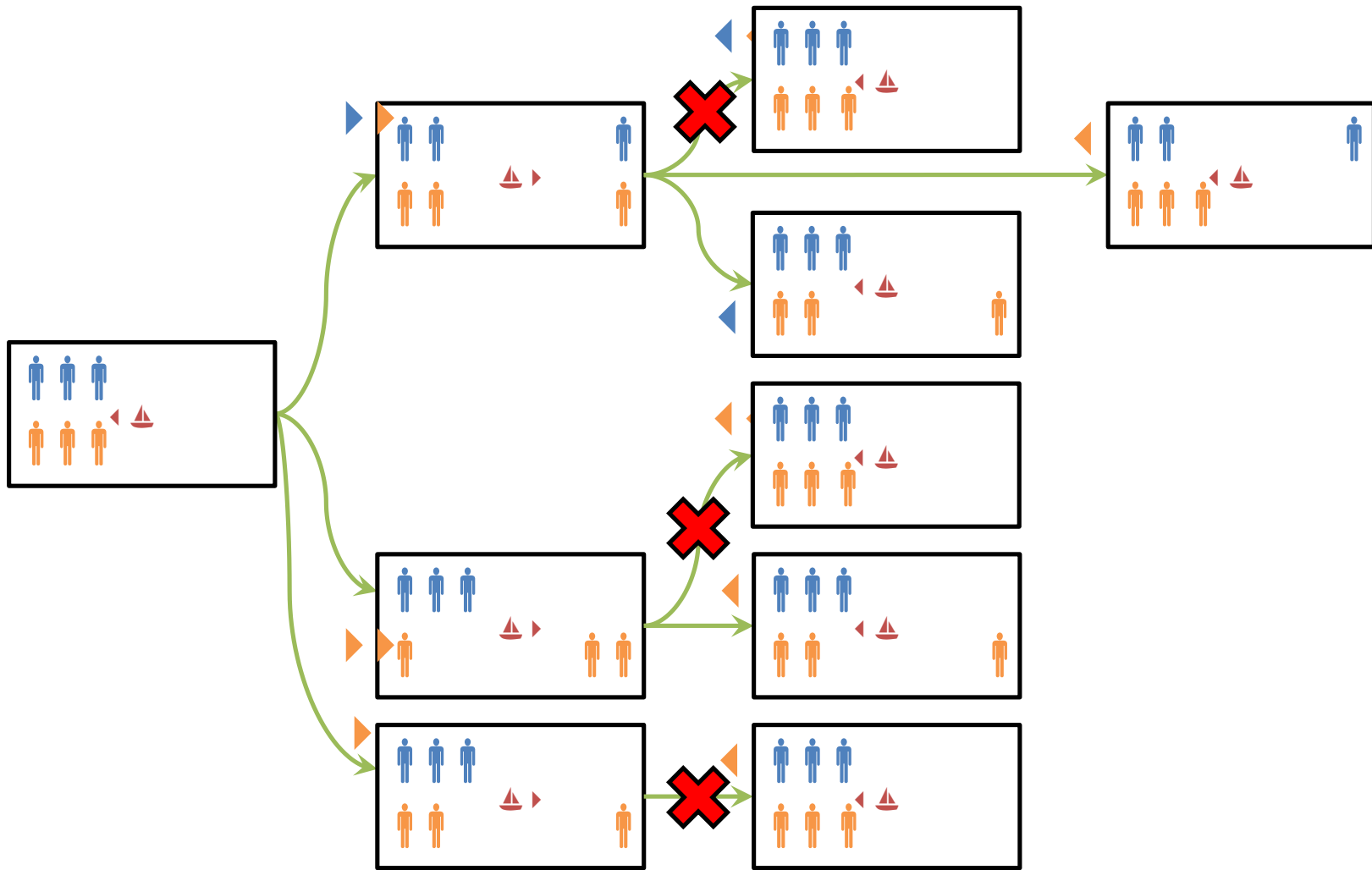


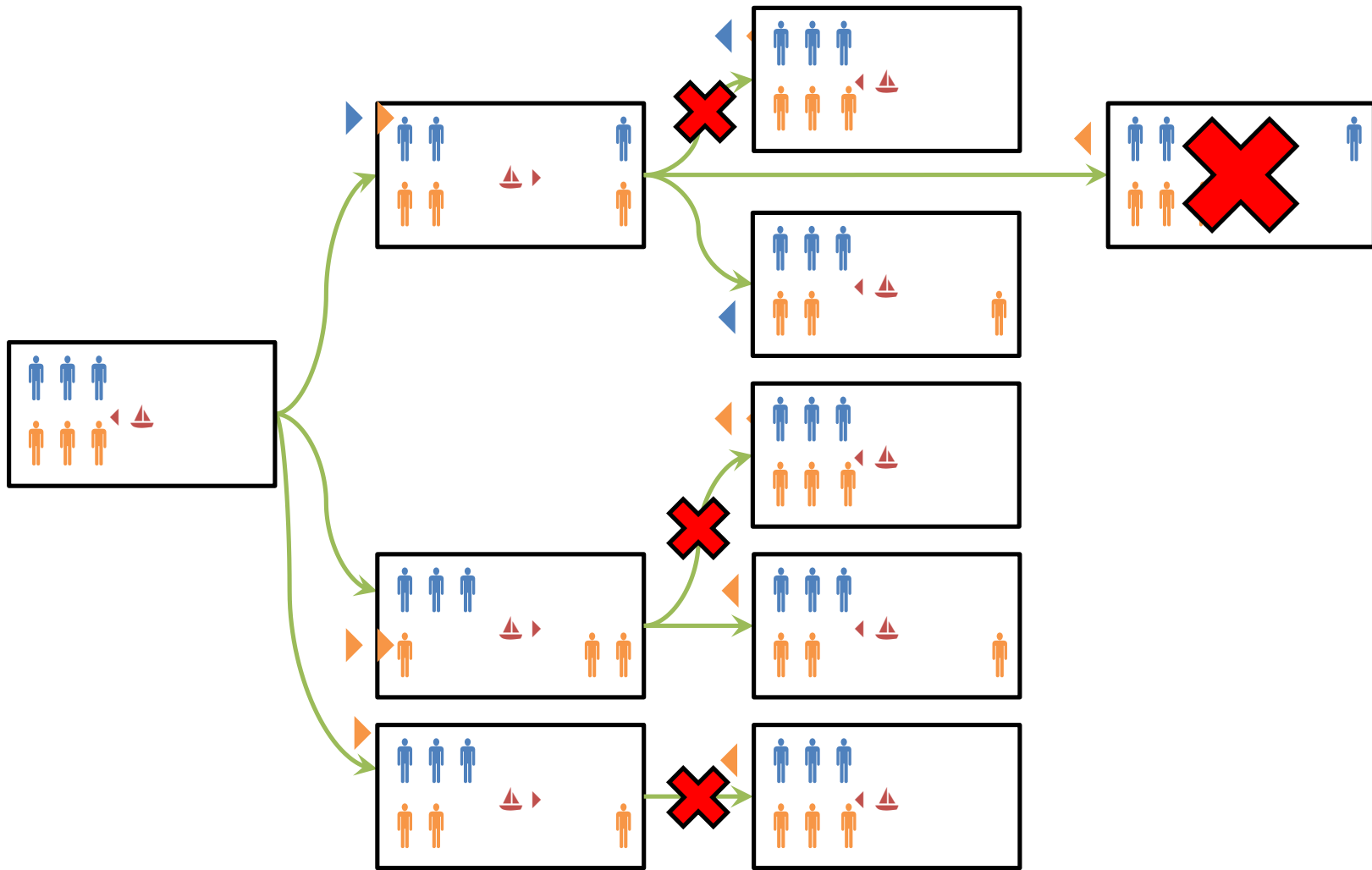


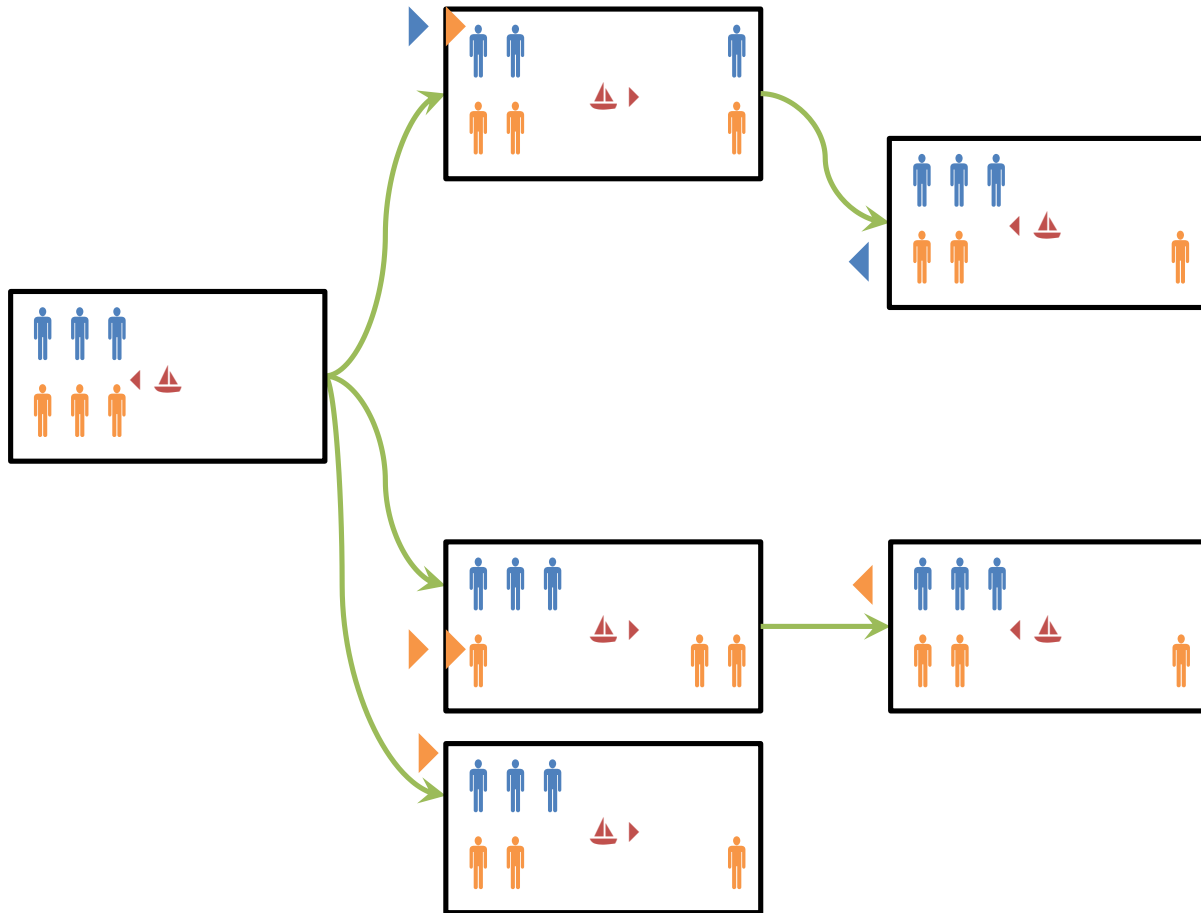


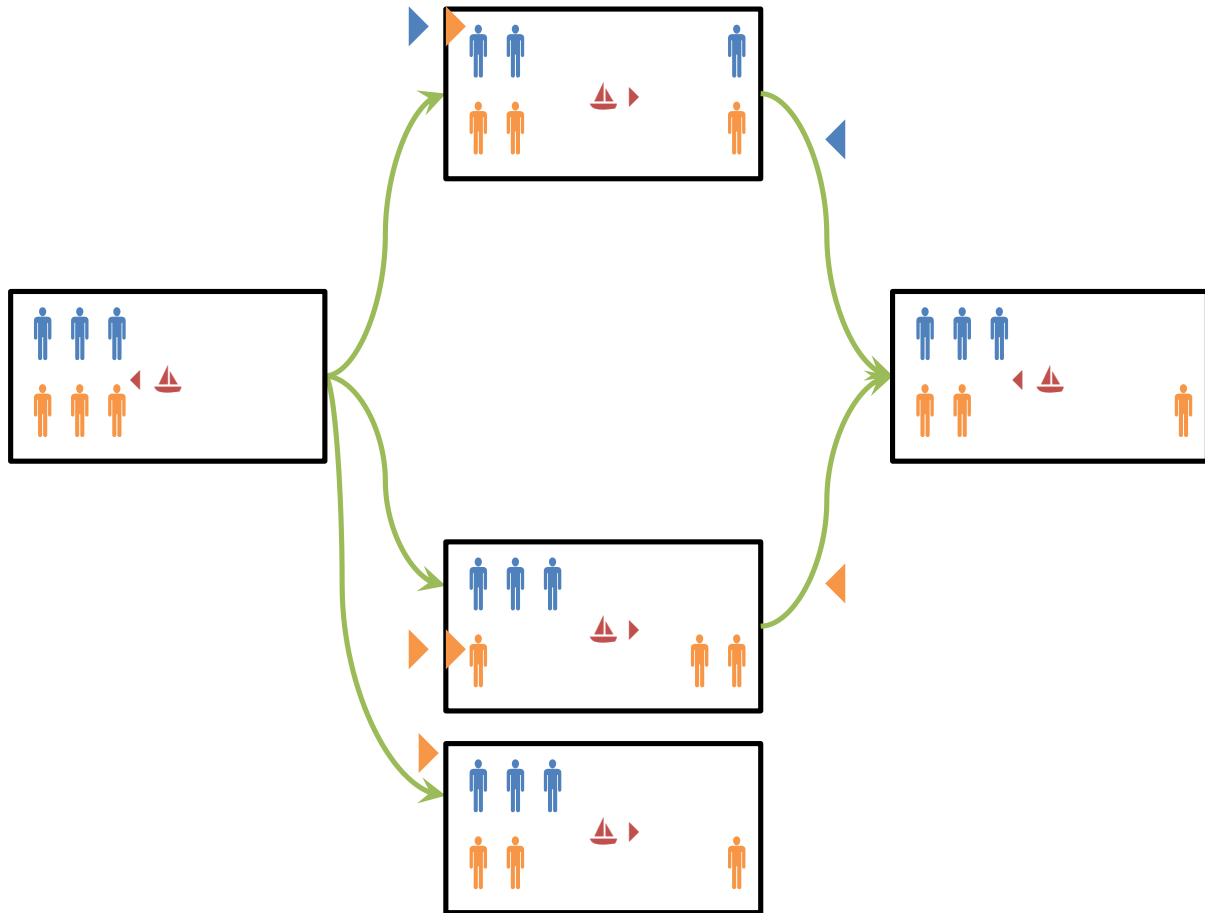




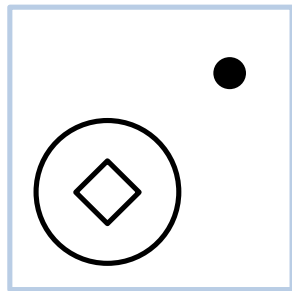




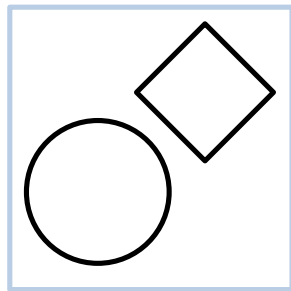




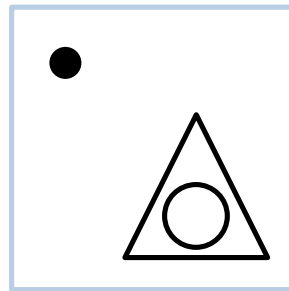
A



B



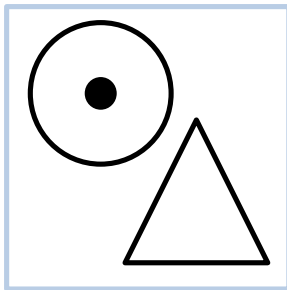
C



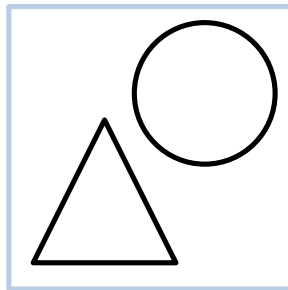
#



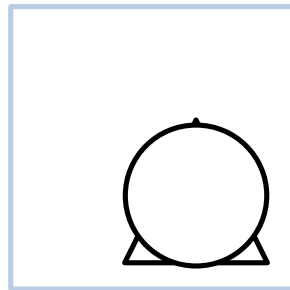
1



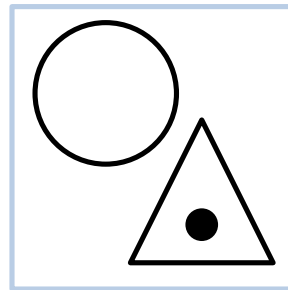
2



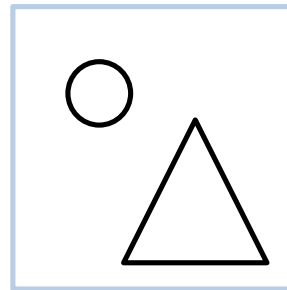
3



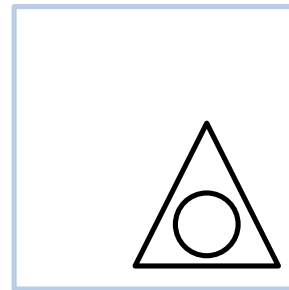
4

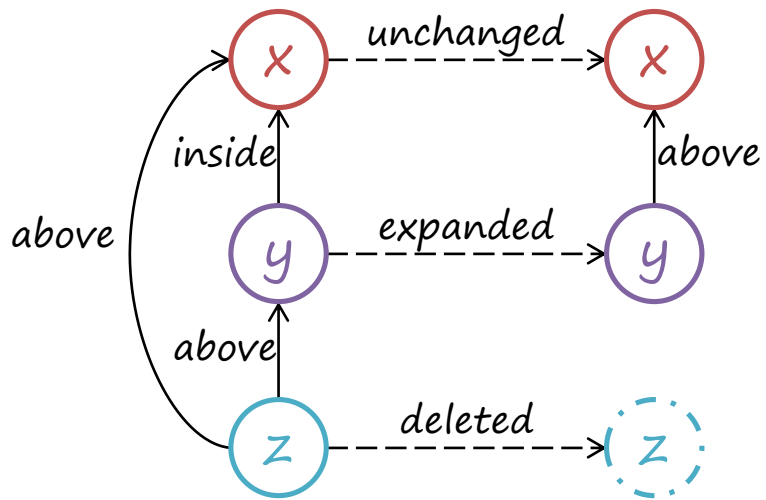
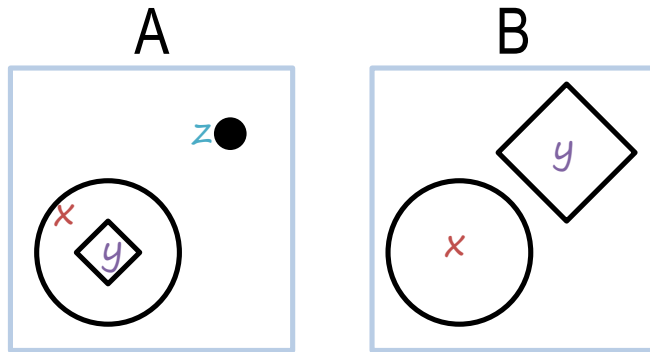


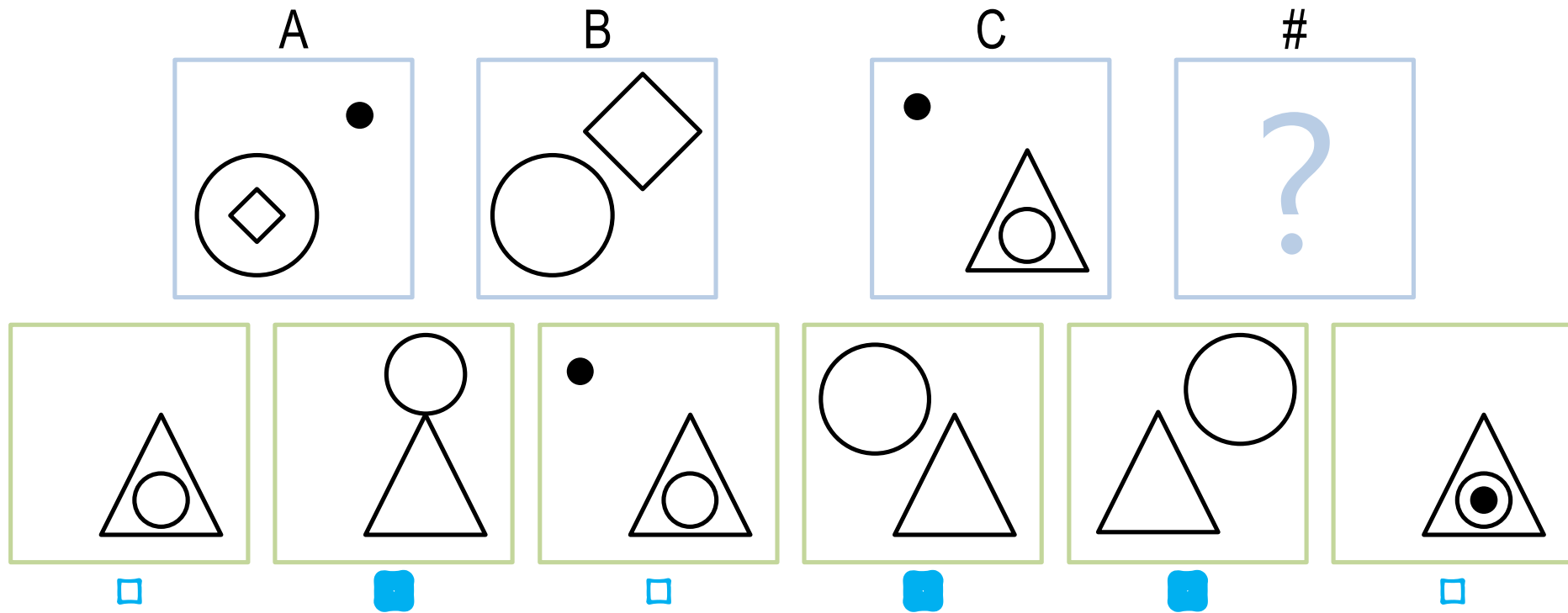
5



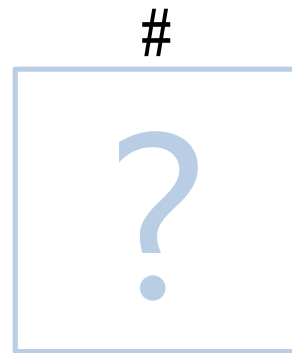
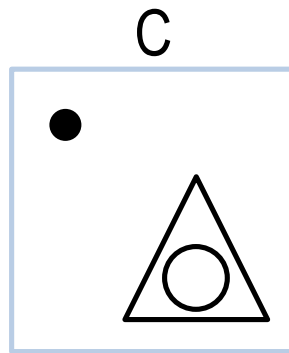
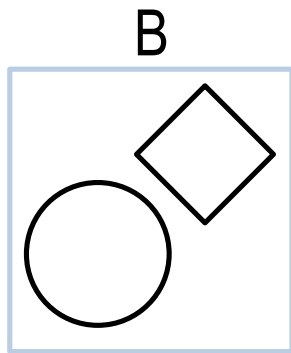
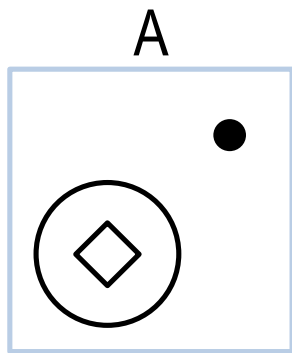
6



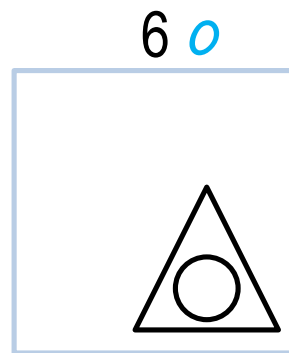
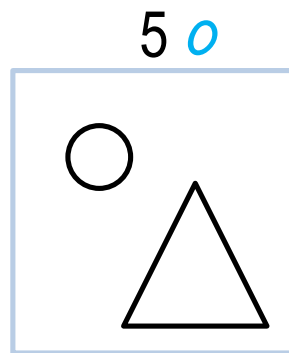
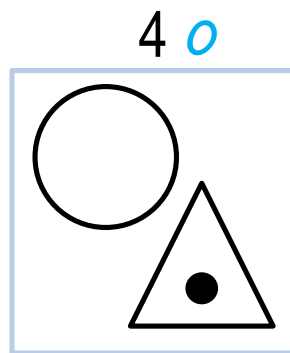
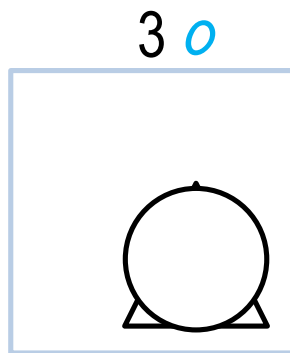
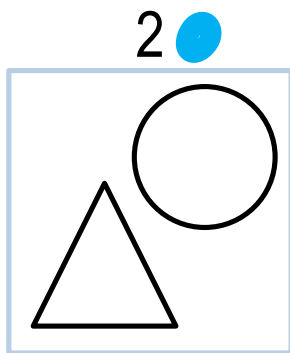
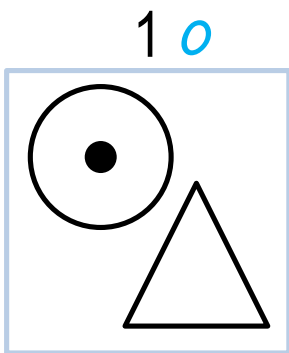
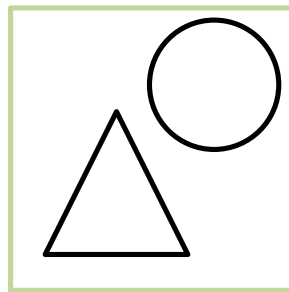
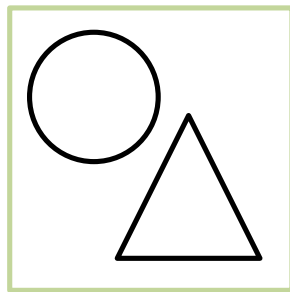
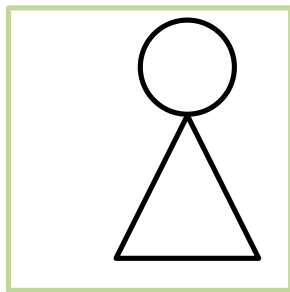




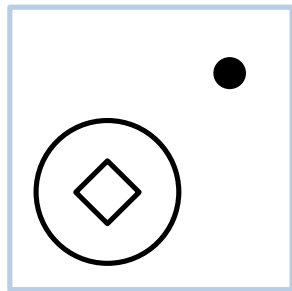
Which of these states might a good generator generate?



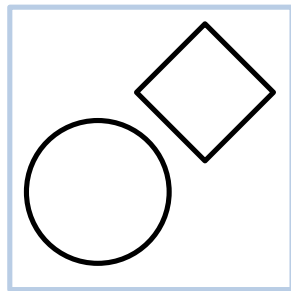
Which
answer
should our
tester select?



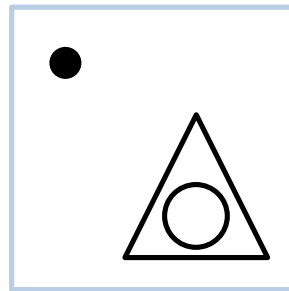
A



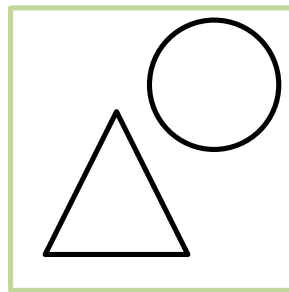
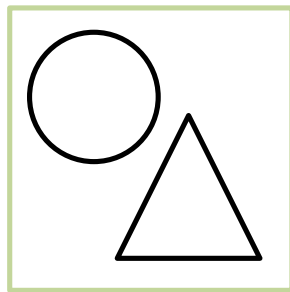
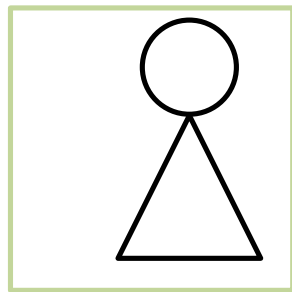
B



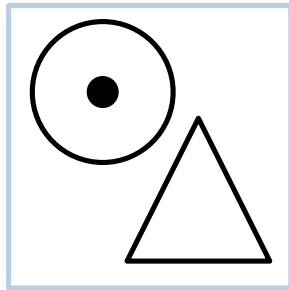
C



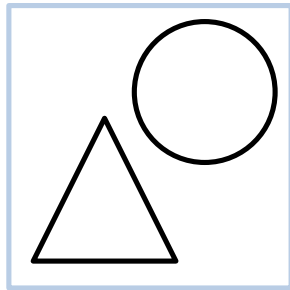
#



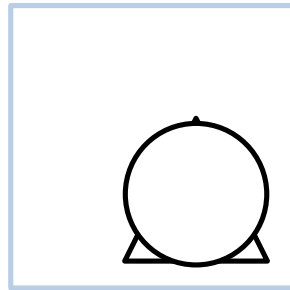
1



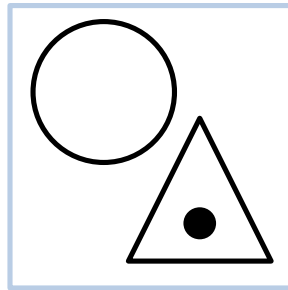
2



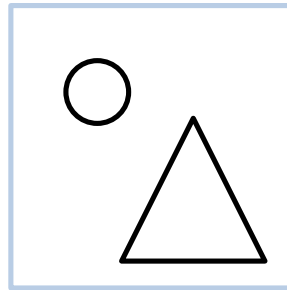
3



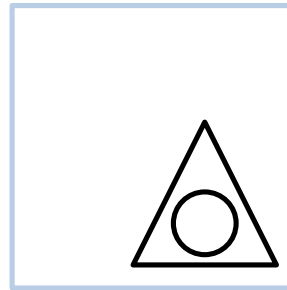
4



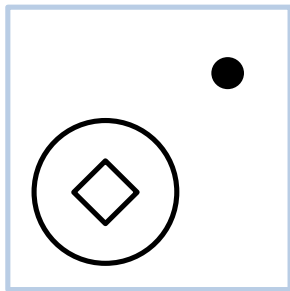
5



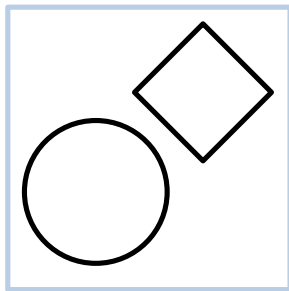
6



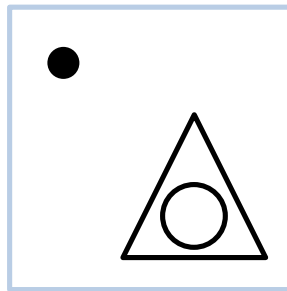
A



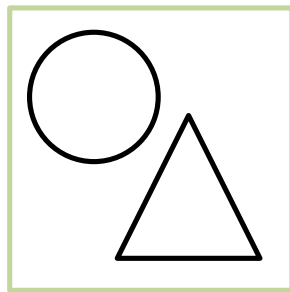
B



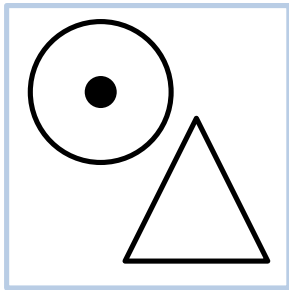
C



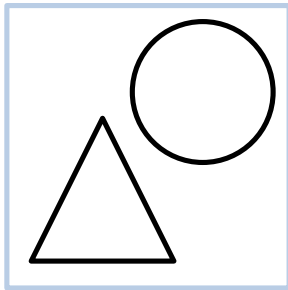
#



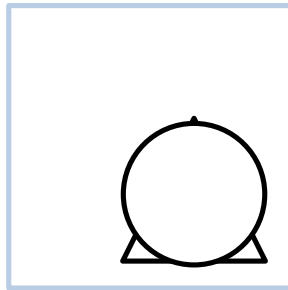
1



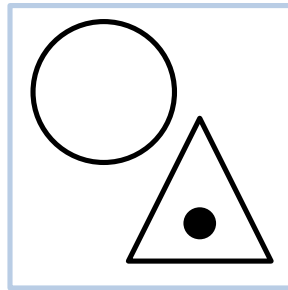
2



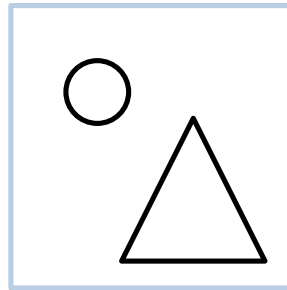
3



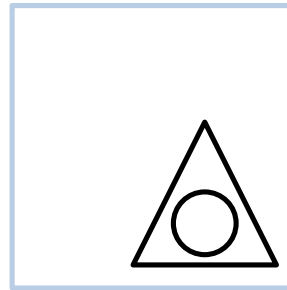
4



5



6



Good Generators

- Complete
- Efficient
- Smart

Assignment

How would you use the generate and test method to design an agent that could answer Raven's Progressive Matrices?

To recap...

- Generate and test
- Smart testers
- Smart generators
- Generate and test in an unconstrained domain