Problem 4. Draw the smallest graph (vertices plus edges) having one source and one sink such that the graph is not series-parallel. Prove it.

Problem 5. Explain the notion of pseudotransitivity in the Nondeterminator.

Problem 6. Suppose the code for reading a shared location \( l \) in the Nondeterminator is changed to the following:

```plaintext
read a shared location \( l \) by procedure \( F \):
    if \( \text{FIND-SET}(\text{writer}(l)) \) is a P-bag
        then a determinacy race exists
            \( \text{reader}(l) \leftarrow F \)
```

Are the errors made by this incorrect code false positives or false negatives? Give a simple example of what can go wrong.