

Distributed Algorithms 2020

Covering maps

First part:

- positive results, algorithms
- what can be computed (efficiently)?

First part:

- positive results, algorithms
- what can be computed (efficiently)?

Second part:

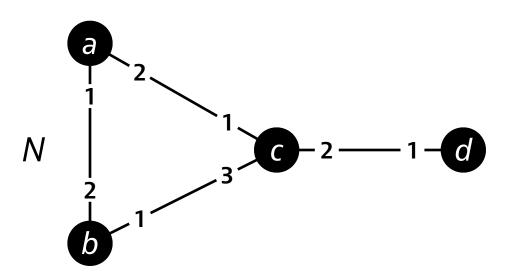
- negative results, lower bounds
- what cannot be computed (efficiently)?

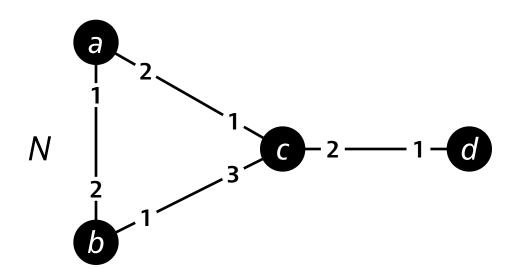
Today:

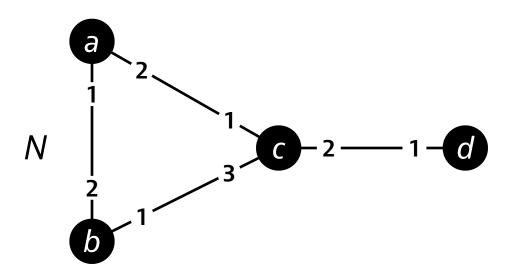
port-numbering model

Today:

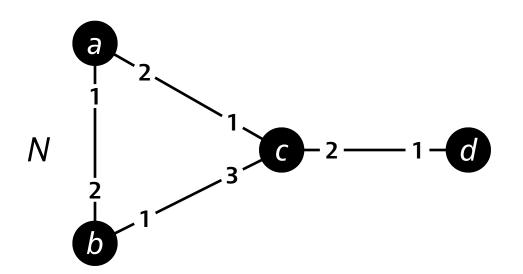
- port-numbering model
- covering maps



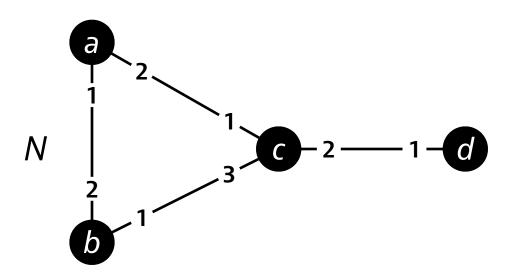


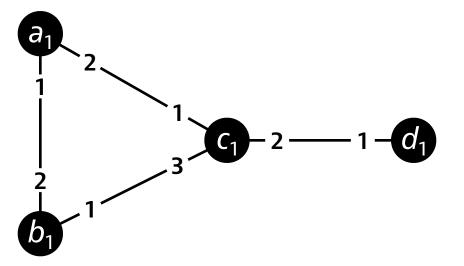


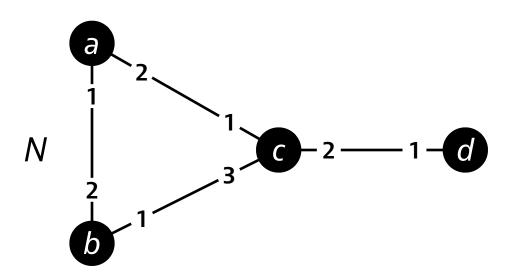


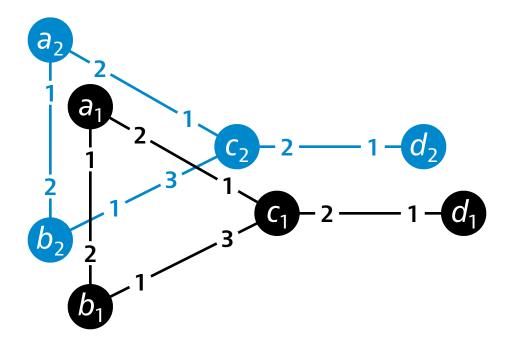


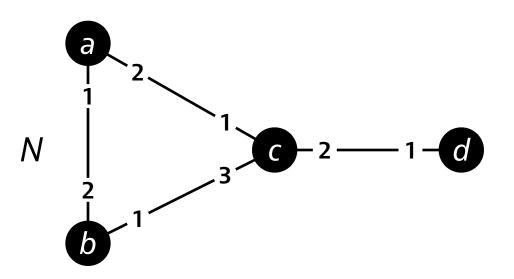
algorithm A + network N \rightarrow *execution* of A in N

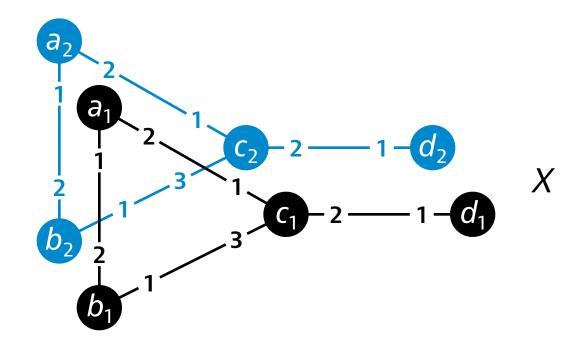


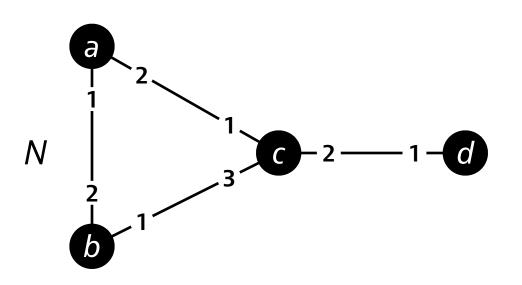


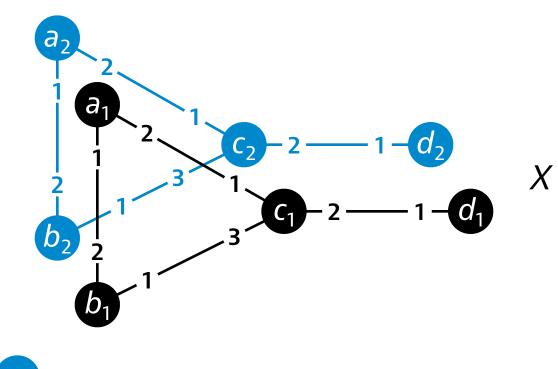


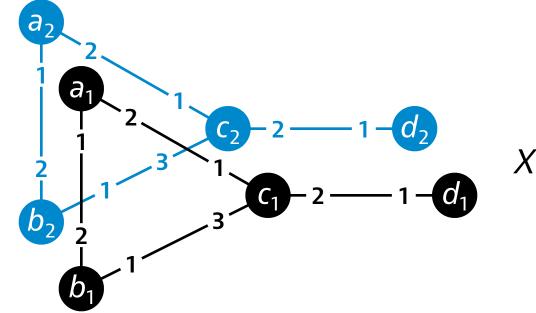


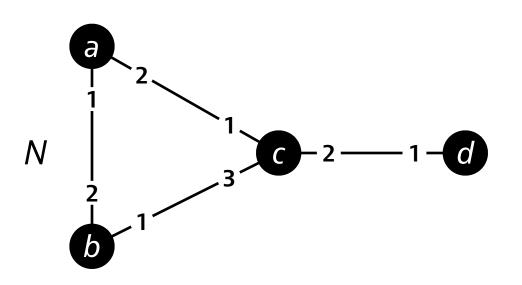


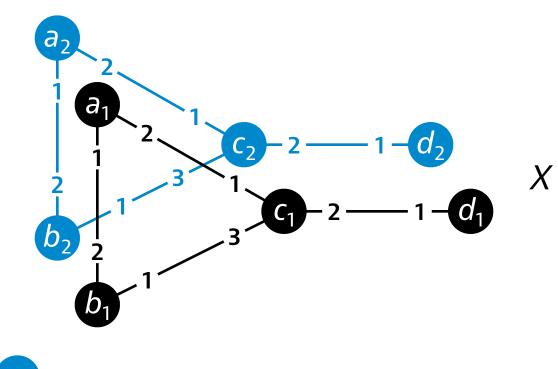


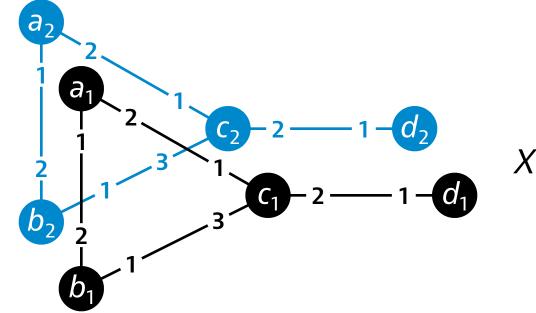


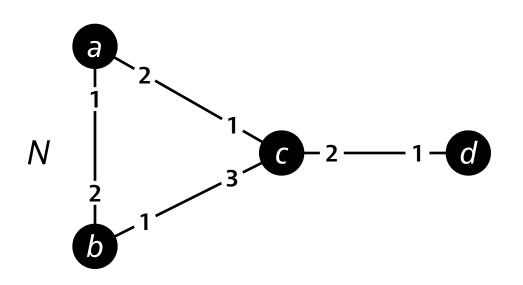


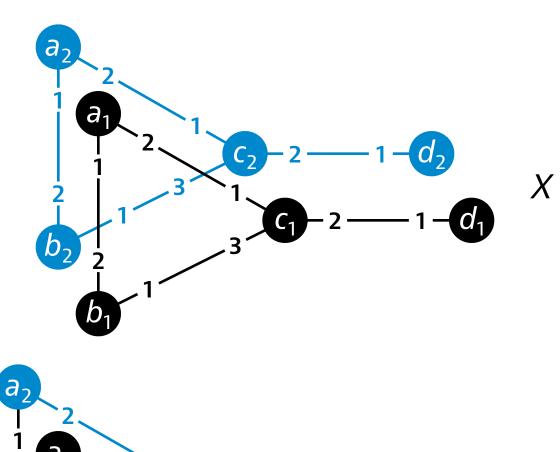


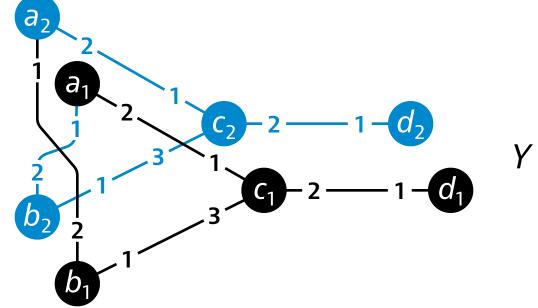


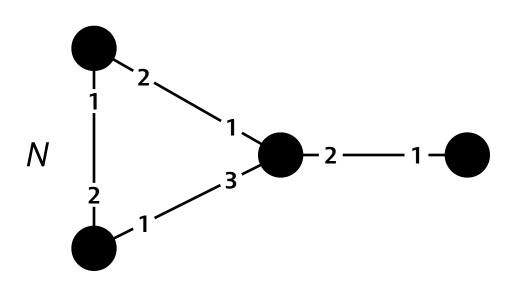


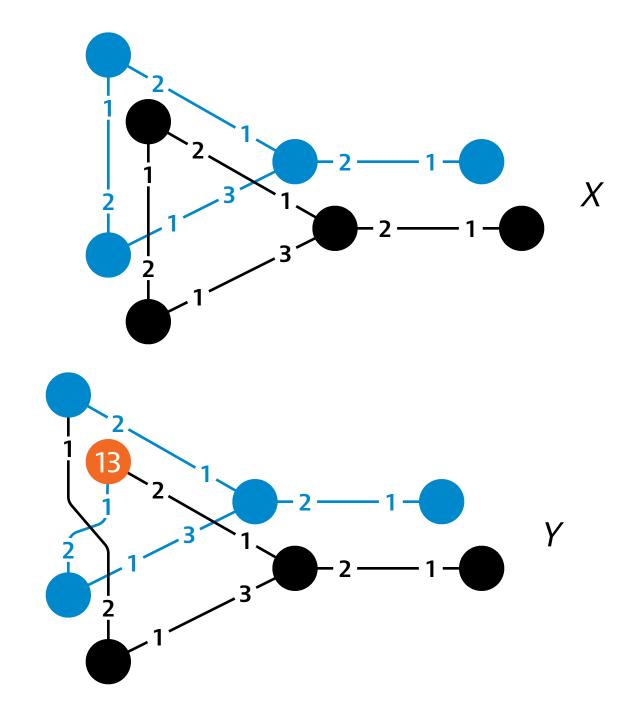


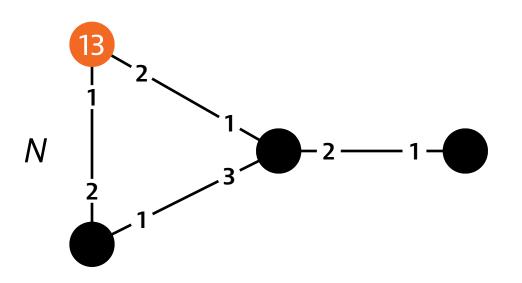


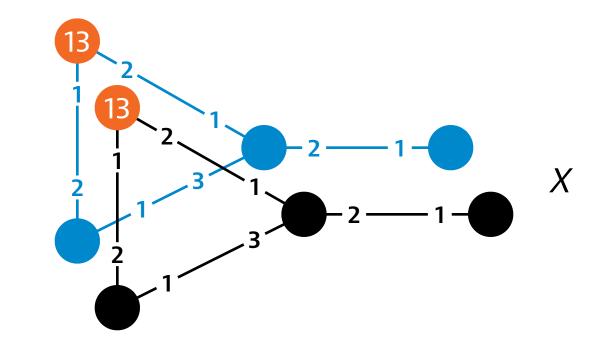


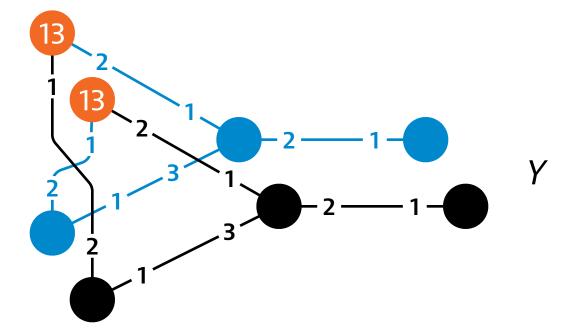


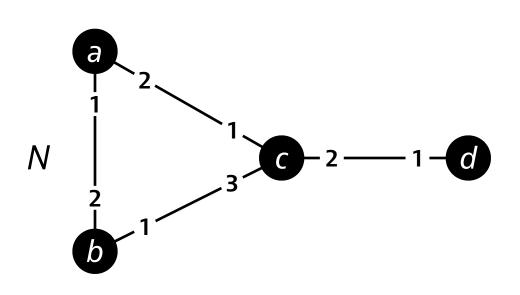


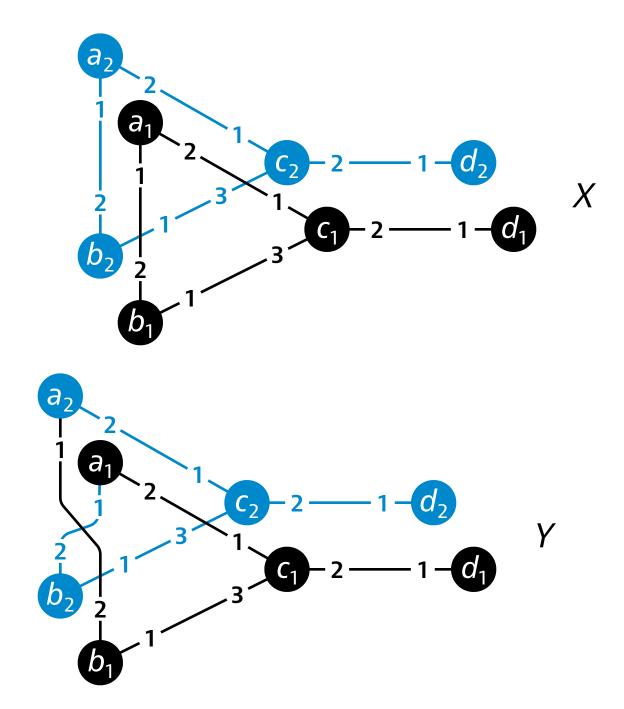


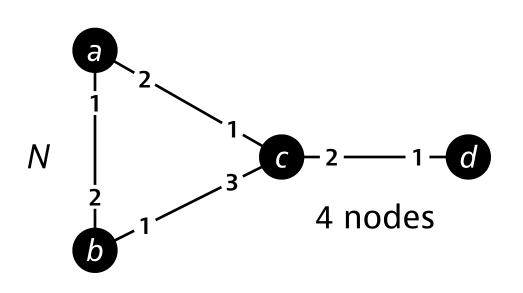


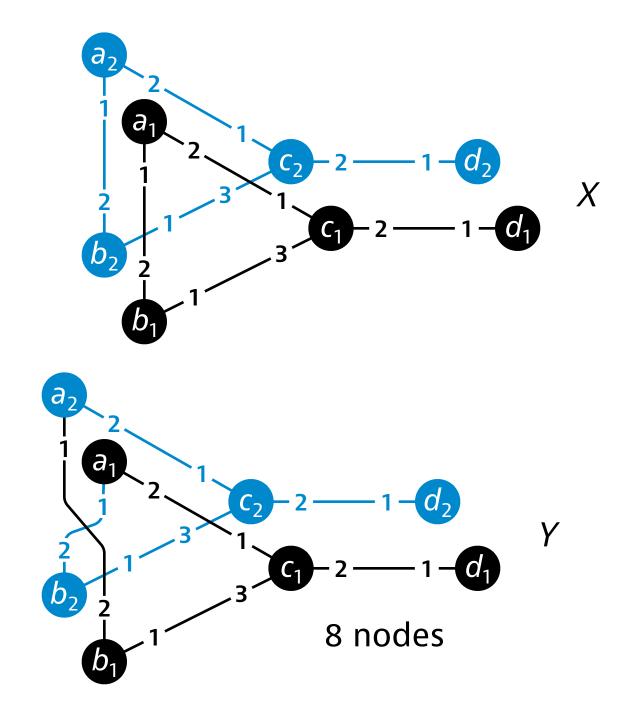


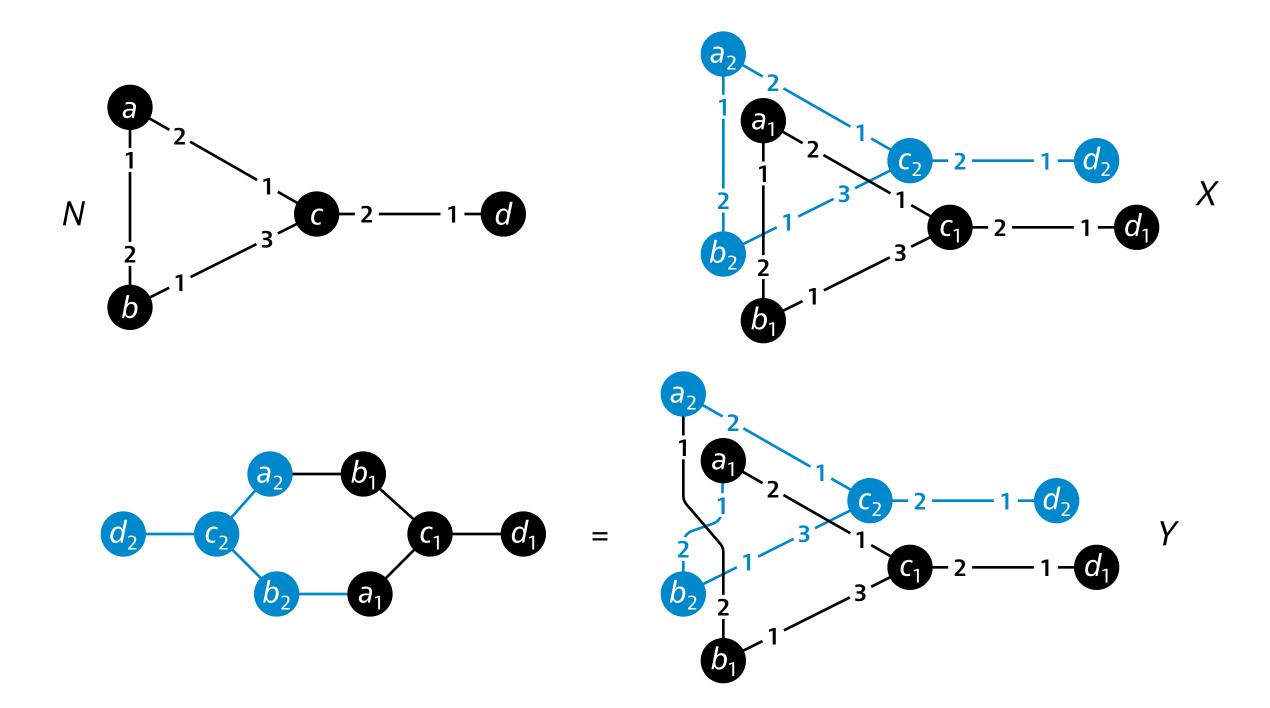


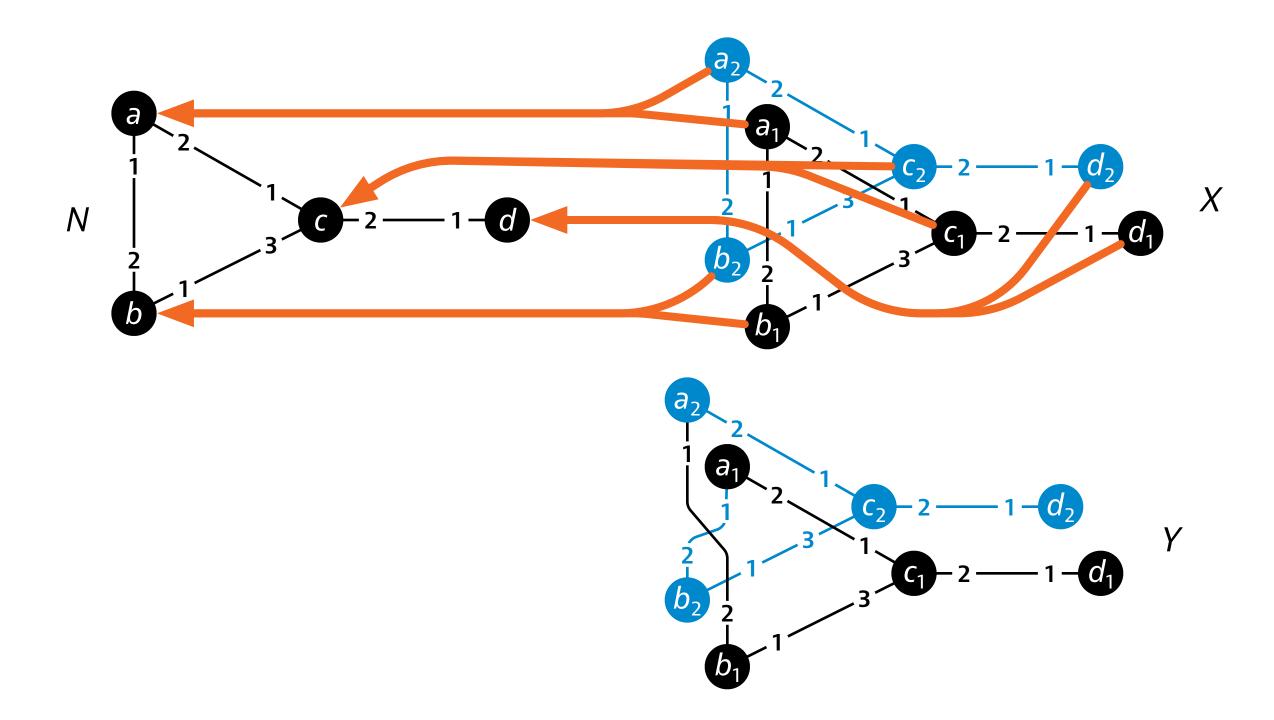


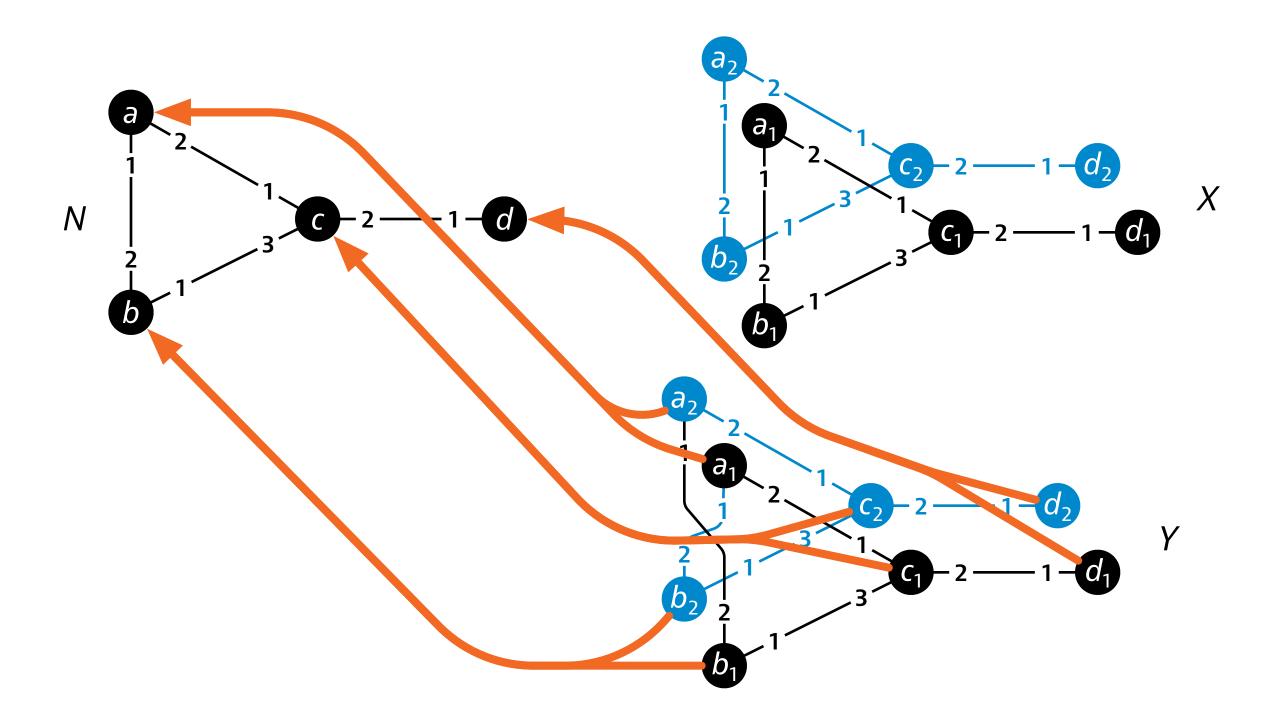


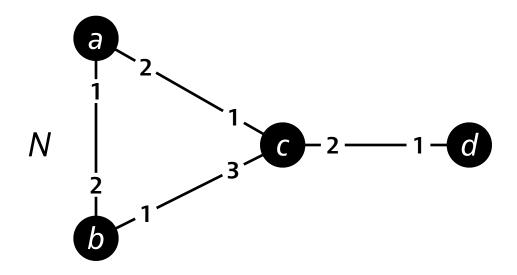












Covering maps preserve everything in port-numbered networks

