

Exercise 1 – Crocodile Airlines:

Exercise A

The figure below shows the routes of Crocodile Airlines in Australia.

Answer the following questions:

- Is the graph directed or not?
- Is it weighted or not?
- How many vertices does the graph have?
- How many edges does the graph have?

Exercise B

Draw the representation of the routes if:

- Adjacency lists** are used
- Adjacency matrix** is used

Exercise C

Traverse the *Crocodile Airlines* graph using **breadth-first**. If there is more than one edge going out from a vertex, then consider the edge pointing to the North, then the one pointing to the East, to the South, and to the West.

Exercise D

As **Exercise C**, but apply **depth-first** traversal.

