CP468 Assignment 1 Missionaries and Cannibals

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Problem Statement

3 Missionaries and 3 Cannibals are on one side of a river, along with a boat that can hold one or two passengers.

Find a way to transport everyone to the other side of the river, without ever leaving a group of Missionaries in one place outnumbered by the Cannibals in that place.

Requirements

- [30 MARKS] give a precise formulation of the problem, following the relevant discussion on **problem formulation** seen in class
- [40 Marks] draw a diagram of the **complete** state space
- [30 MARKS] implement an appropriate **search algorithm**, from the ones seen in class, and solve the problem optimally, using the programming language of your choice

What to submit by the due date

See the course outline for the general submission and file naming convention requirements.

Late submission policy

Late submissions will not be accepted.

Late submissions will be marked with 0.