**Missionaries and cannibal problem:**

Here, this diagram missionaries denotes by ’M’ and cannibals denotes by ‘C’.

**START**

**M**M

cc

MC

M

C

MC

MM

C

MM

MC

CC

C

**GOAL**

MC

CC

MM

C

CC

C

Condition:

M>C

M<C

C Kill M

**We can find that, in this state diagram start to goal total 11 path cost.**