

Go

Auto Play

Instruction

Girls and Cannibals



OVERVIEW



In the Girls and cannibals problem, three girls and three cannibals must cross a river using a boat which can carry at most two people, under the constraint that, for both banks, if there are girls present on the bank, they cannot be outnumbered by cannibals (if they were, the cannibals would eat the girls). The boat cannot cross the river by itself with no people on board. And, in some variations.

GOALS:-

- There is 1 boat available that can carry at most 2 people and that they would like to use to cross the river.

USED TECHNOLOGY:-

- ★ **UNITY**
- ★ **C#**
- ★ **Desktop**





Auto Play

Girls and Cannibals

PEAS :--

Performance Measure: Safe **and** Speed

Environment: 3 Cannibals & 3 Girls
Boat & left and Right of the

River Actuators: Boat & Oars

Sensors: Screen



ODESA :--

Observability : Fully observable

Deterministic : Strategic

Episode : Sequential

Static : Semi - Dynami

Agent : Single

Problem Formulation:



Initial state:

3 missionaries, 3 cannibals and the boat are on the near bank.



Successor Function:

Move the boat containing some set of occupants across the river to the other side.



Goal Test:

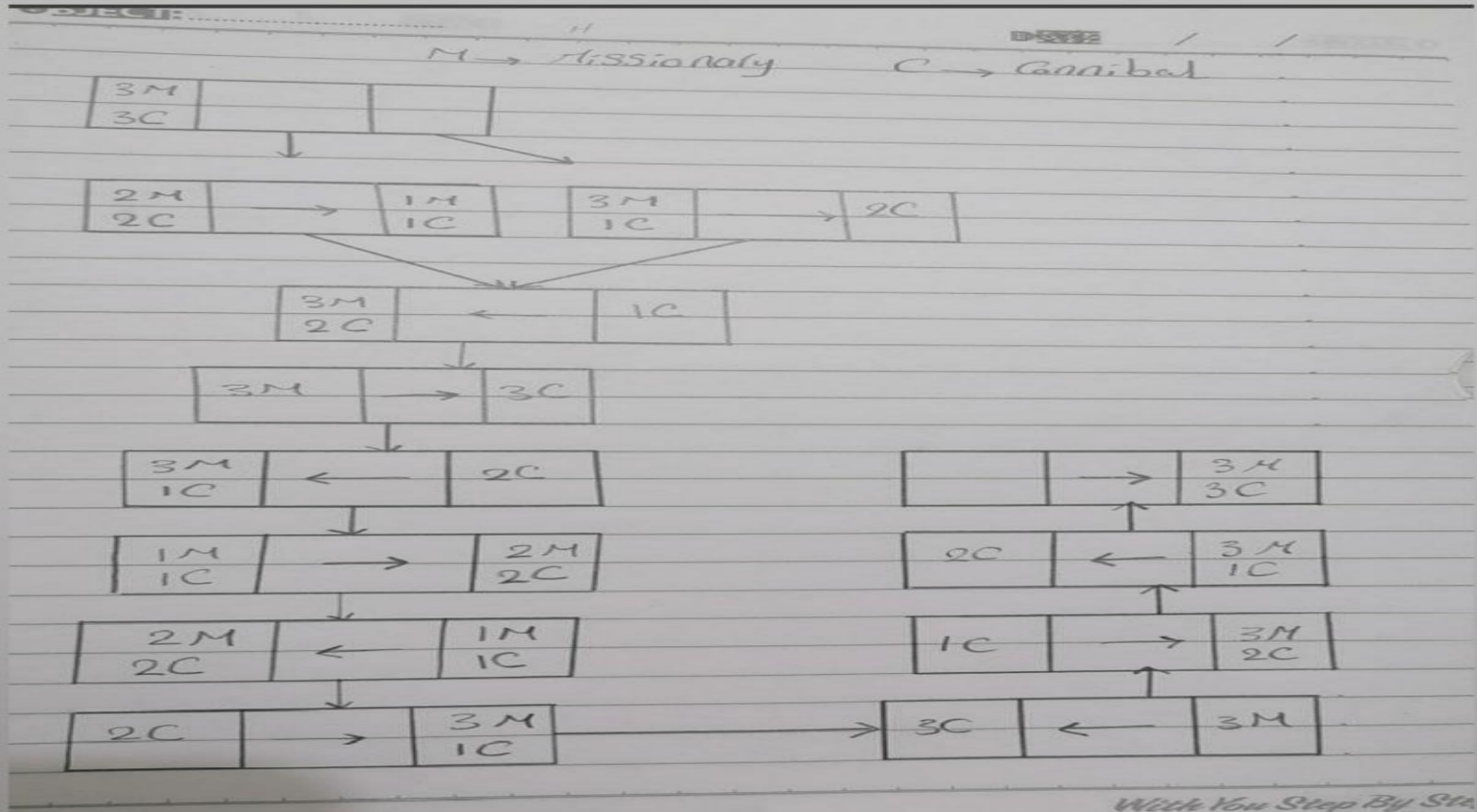
Move all the missionaries and cannibals across the river.



Path cost :

Requires minimum number of moves.

Tree Search:



With You Step By Step

Agent Type :-

Goal Based Reflex Agent.

TEAM MEABERS:

- | | | |
|---|---------------------------|-------|
| ★ | Kholoud Waleed Elsherbeny | Sec 6 |
| ★ | Rabab Osama Mahmoud | Sec 6 |
| ★ | Alaa Mahmoud Abdelrahman | Sec 5 |

