Roll. No: 21102 #0014. Bonh: TECMIPNA Take Home test # Missionaries and connibals problem solution. Problem statement: 3 missionaries and 3 cannibals are on one side of a river along with boat, that can hold 1/2 people . The goal is to find a way to transport everyone to the other side of the river without ever leaving a group of missionants in one place out numbered by cannibals in that place. Solution => O state discription C M1, C1, Bal, M2, C2). Missionary count on Bankt. (0,1,2,3)
C1: Cannibals Count on Bankt (0,1,2,3). BOI: Bank on which Bout (0 => Bank1 1 => Bank2) M12: Missionay count on Bank 2 (0,1,2,3) c2: Cannibals count on Bank 2 (0,1,2,3) (2) Initial state ⇒ ( 3,3,0,0,0) Goal State => (0,0,1,3,3) 3 List of all actions = => Take 2M Bum Bank1 to Bank2 BIMMB2 => Take ec from banks to banke. B1 C C B 2 B1 M C B2 > Take 1M & 1 C Fin Banks to Bonk2 B1 MB2 => Take 1 M Dom Banks to Bank 2 B1 C B2 => Take 1 C Dom Banks to Bank 2 Banks to Bonk 2.

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