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Code Repo: https://github.com/harpreets652/genetic-algorithms-submit

Output: 3 missionaries and cannibals with **boat size of 2** and breadth first search
harpreetsingh@ubuntu:/mnt/hgfs/harpreetsingh/github/genetic-algorithms/HillClimber$ g++ -std=c++0x -o canAndMiss main.cpp
harpreetsingh@ubuntu:/mnt/hgfs/harpreetsingh/github/genetic-algorithms/HillClimber$ ./canAndMiss
Left Bank: {C: 3, M: 3}, Right bank: {C: 0, M: 0}, Boat: L
Left Bank: {C: 1, M: 3}, Right bank: {C: 2, M: 0}, Boat: R
Left Bank: {C: 2, M: 2}, Right bank: {C: 1, M: 1}, Boat: R
Left Bank: {C: 2, M: 3}, Right bank: {C: 1, M: 0}, Boat: R
Left Bank: {C: 2, M: 3}, Right bank: {C: 1, M: 0}, Boat: L
Left Bank: {C: 0, M: 3}, Right bank: {C: 3, M: 0}, Boat: R
Left Bank: {C: 1, M: 3}, Right bank: {C: 2, M: 0}, Boat: L
Left Bank: {C: 1, M: 1}, Right bank: {C: 2, M: 2}, Boat: R
Left Bank: {C: 2, M: 2}, Right bank: {C: 1, M: 1}, Boat: L
Left Bank: {C: 2, M: 0}, Right bank: {C: 1, M: 3}, Boat: R
Left Bank: {C: 3, M: 0}, Right bank: {C: 0, M: 3}, Boat: L
Left Bank: {C: 1, M: 0}, Right bank: {C: 2, M: 3}, Boat: R
Left Bank: {C: 2, M: 0}, Right bank: {C: 1, M: 3}, Boat: L
Left Bank: {C: 1, M: 1}, Right bank: {C: 2, M: 2}, Boat: L
FOUND GOAL
Left Bank: {C: 0, M: 0}, Right bank: {C: 3, M: 3}, Boat: R
Process finished with exit code 0

Output: 3 missionaries and cannibals with **boat size of 3** and breadth first search
harpreetsingh@ubuntu:/mnt/hgfs/harpreetsingh/github/genetic-algorithms/HillClimber$ g++ -std=c++0x -o canAndMiss main.cpp
harpreetsingh@ubuntu:/mnt/hgfs/harpreetsingh/github/genetic-algorithms/HillClimber$ ./canAndMiss
Left Bank: {C: 3, M: 3}, Right bank: {C: 0, M: 0}, Boat: L
Left Bank: {C: 0, M: 3}, Right bank: {C: 3, M: 0}, Boat: R
Left Bank: {C: 1, M: 3}, Right bank: {C: 2, M: 0}, Boat: R
Left Bank: {C: 2, M: 2}, Right bank: {C: 1, M: 1}, Boat: R
Left Bank: {C: 3, M: 0}, Right bank: {C: 0, M: 3}, Boat: R
Left Bank: {C: 2, M: 3}, Right bank: {C: 1, M: 0}, Boat: L
Left Bank: {C: 1, M: 1}, Right bank: {C: 2, M: 2}, Boat: R
Left Bank: {C: 2, M: 0}, Right bank: {C: 1, M: 3}, Boat: R
Left Bank: {C: 2, M: 2}, Right bank: {C: 1, M: 1}, Boat: L
Left Bank: {C: 1, M: 3}, Right bank: {C: 2, M: 0}, Boat: L
Left Bank: {C: 1, M: 0}, Right bank: {C: 2, M: 3}, Boat: R

Left Bank: {C: 3, M: 0}, Right bank: {C: 0, M: 3}, Boat: L
FOUND GOAL
Left Bank: {C: 0, M: 0}, Right bank: {C: 3, M: 3}, Boat: R

Process finished with exit code 0