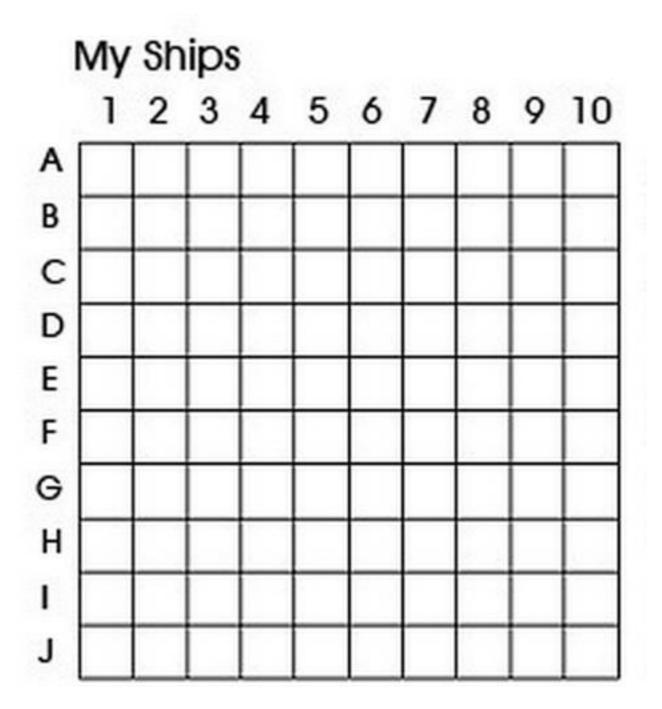
Battleship - Coding Problem



A battleship game is played on a board 10X10. The top most left cell is called: A1. You will design a program to play this game of battleship against the computer. The rules are as follows:

1. At the start, the computer will randomly place 4 ships on the board. The ships can only be placed vertically or horizontally (and not diagonally). The ships cannot overlap. You will NOT know the position of the ships.

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- 2. On each turn, you get to "shoot" a location. If your shot, hits a ship, the computer will reply: "Hit". Else "Miss".
- 3. If all locations on a ship get hit, then the computer will say "Sink".
- 4. When all ships have been sunk, you WIN.
- 5. When you say "I LOSE", the computer will print the board, with locations of ships, and the places where you had "shot".

The following are the ships and their sizes:

Carrier	5
Battleship	4
Submarine	3
Patrol	2

SAMPLE PROGRAM RUN

Enter a coordinate: H1

MISS

Enter a coordinate: F6

MISS

Enter a coordinate: F7

HIT

Enter a coordinate: F8

HIT

Enter a coordinate: F9

SINK

Enter a coordinate: I LOSE

<Prints the board and the program terminates>