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//battleship main
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#include "battleship.h"
#include <iostream>
using std::cout; using std::cin; using std::endl;
int main() {
       srand(time(nullptr));
       //field grid is initialized
       int field[fieldSize][fieldSize];
       initialize(field);
       //enemy is formed and deployed
       Fleet enemy;
       enemy.deployFleet();
       //asks player if they want to see ship locations
       cout << "Welcome to battleship!" << endl</pre>
              << "Would you like to see the status/location of the enemy fleet while you
play?(y/n) ";
       char answer;
       cin >> answer;
       //shows ship locations based on player response
       if (answer == 'y')
              enemy.showShips(field);
       //shows player field grid
       cout << "Here is your battlefield! O=miss, X=hit";</pre>
       if (answer == 'y')
              cout << ", S=ship";</pre>
       cout << endl;</pre>
       printField(field);
       //initiates turn counter
       int numTurns = 0;
       //game is ran while ships are all up
       while (enemy.operational()) {
              numTurns += 1;
              cout << numTurns << ".";</pre>
              //player fires a shot at playerShot
              Location playerShot;
              cout << "Enter the coordinates of your shot(eg a1): ";</pre>
              playerShot.fire();
              //ship sinks if hit
              if (enemy.isHitNSink(playerShot, field))
                     cout << "Hit!" << endl;</pre>
              else
                     cout << "Miss!" << endl;</pre>
```