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/* Program: Graph_Paper.cpp
Author: Michael Campbell
Date: 10/4/10
Synopsis: Create user defined Graph Paper
*/

#include <iostream>
#include <cstdlib>

int main () {

    //Get Size info
    std::cout << "\nHow many rows (e.g., 10)? \n";
    int nrows; //uninitialized variable
    std::cin >> nrows;

    std::cout << "How many columns (e.g., 10)? \n";
    int ncols; //uninitialized variable
    std::cin >> ncols;

    std::cout << "Column Width (e.g., 10)? \n";
    int colwidth; //uninitialized variable
    std::cin >> colwidth;

    std::cout << "Row Height (e.g., 10)? \n";
    int rowheight; //uninitialized variable
    std::cin >> rowheight;

    //Loops
    for (int r = 0; r < nrows; ++r) {
//Prints top line for row
        for (int c = 0; c < ncols; ++c) {
            std::cout << "+";
            for(int i = 0; i < colwidth; ++i) {
                std::cout << "-";
            }

            std::cout << "\n";
//Prints column dividers
            for (int rh = 0; rh < rowheight; ++rh) {
                for (int c = 0; c < ncols; ++c) {
                    std::cout << "|";
                    for (int j = 0; j < colwidth; ++j) {
                        std::cout << " ";
                    }
                }
                std::cout << "\n";
            }
        }

        std::cout << "\n";
        return EXIT_SUCCESS;
    }
}
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}
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