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Code Blame 84 lines (75 loc) · 2.27 KB
                                                    8 Code 55% faster with GitHub Copilot
            #include <iostream>
            using namespace std;
            /**
            * @brief main function will receive input from user, store values, create pointers, and display outputs
             * Program prompts user to input three integer values
             * These values are stored within three separate variables
             * The values in the variables and pointers are then displayed
             * int main() +
                    - Declare variables
                    int num1, num2, num3
                    INPUT: num1
                    OUTPUT: 'Enter second variable'
                    INPUT: num2
                    OUTPUT: 'Enter third variable'
                    int* ptrl ... numl
int* ptr2 ... num2
                    - Output values in variables and pointers
                   OUTPUT: num1 & ptrl
                    - For safety... set pointers to null post-deletion
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            int main() {
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                // Declare variables - storing user inputs
                int num1, num2, num3;
                // Prompt the user for inputs
               cout << "Enter your first integer: ";
               cin >> numl:
               cout << "Enter your second integer: ";
               cin >> num2;
     60
               cout << "Enter your third integer: ";
               cin >> num3;
                int* ptrl = new int(numl);
int* ptr2 = new int(num2);
                int* ptr3 = new int(num3);
                // Display the contents of the variables AND pointers
                cout << "Variable 1: " << numl << " Pointer 1: " << *ptrl << endl;</pre>
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               cout << "Variable 2: " << num2 << " Pointer 2: " << *ptr2 << endl;
               cout << "Variable 3: " << num3 << " Pointer 3: " << *ptr3 << endl;
                // Use delete operator to free dynamically allocated memory
               delete ptrl;
                delete ptr2;
                delete ptr3;
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                ptrl = nullptr;
                ptr2 = nullptr;
                ptr3 = nullptr;
                return 0;
```