# Documentation

## main.ccp

#include <iostream>

#include <string>

using namespace std;

int main()

{

// Variables

int value1;

char value2;

string value3;

// Prompt user

std::cout << "Enter integer, then character, then string:\n";

std::cin >> value1 >> value2 >> value3;

// Pointers

int \*ptr1 = new int(value1);

char \*ptr2 = new char(value2);

string \*ptr3 = new string(value3);

// Print Variables and Pointers

std::cout << "\nContents of variables:\n";

std::cout << "Value 1: " << value1 << std::endl;

std::cout << "Value 2: " << value2 << std::endl;

std::cout << "Value 3: " << value3 << std::endl;

std::cout << "\nContents of pointers:\n";

std::cout << "Pointer 1: " << \*ptr1 << std::endl;

std::cout << "Pointer 2: " << \*ptr2 << std::endl;

std::cout << "Pointer 3: " << \*ptr3 << std::endl;

// Relieve memory

delete ptr1, ptr2, ptr3;

return 0;

}

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## Psuedocode

int class Main {

//Initialize Variables

int, char, string;

//Prompt user to input all Variables

cin >> int >> char >> string;

//Assign pointers to variables in dynamic memory

intP = new(int);

charP = new(char);

stringP = new(string);

//Print Varible and Pointer (Reference) Values

cout >> int >> char >> string;

cout >> intP >> charP >> stringP;

//Release points in memory

delete intP;

delete charP;

delete stringP;

return 0;

}

## Github

https://github.com/n0hb0dy/csc450\_ct\_assignments/tree/main/Module%20Three

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