## **Integer Pointers Program**

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CSC 450: Programming III

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## **CTA 3 Main Program Code**

```
//an inclusion package.
#include <iostream>
using namespace std;
//Main function / main entry point.
int main() {
  //Defining some variables to store user inputting ints.
  int numberOne = 0;
  int numberTwo = 0:
  int numberThree = 0;
  /* Here, we ask the user in the console for three integers and store them
  * in the variables we declared above.*/
  cout << "Enter the first integer: ";
  cin >> numberOne;
  cout << "Enter the second integer: ";
  cin >> numberTwo;
  cout << "Enter the third integer: ";
  cin >> numberThree;
  //Defining some pointers for the integers we populated.
  int* numOnePointer = new int(numberOne);
  int* numTwoPointer = new int(numberTwo);
  int* numThreePointer = new int(numberThree);
  //Printing memory addresses and their associated ingeter values.
  cout << "\nMemory address for first integer: " << numOnePointer << " | It's integer value was:
" << numberOne:
  cout << "\nMemory address for second integer: " << numTwoPointer << " | It's integer value
was: " << numberTwo;
  cout << "\nMemory address for three integer: " << numThreePointer << " | It's integer value
was: " << numberThree;</pre>
  //Deleting and freeing up that memory!
  delete numOnePointer:
  delete numTwoPointer;
  delete numThreePointer;
  //Waiting for input as to not immediately close the console.
  cin.get();
```

```
//Main function return statement.
  return 0;
}
                             CTA 3 Main Program Pseudocode
//Main function / main entry point.
FUNCTION Main() {
  //Defining some variables to store user inputting ints.
  DEFINE an int called 'numberOne' equal to 0
  DEFINE an int called 'numberTwo' equal to 0
  DEFINE an int called 'numberThree' equal to 0
  /* Here, we ask the user in the console for three integers and store them
  * in the variables we declared above.*/
  PRINT("Enter the first integer: ")
  SET 'numberOne' equal to user's input.
  PRINT("Enter the second integer: ")
  SET 'numberTwo' equal to user's input.
  PRINT("Enter the third integer: ")
  SET 'numberThree' equal to user's input.
  //Defining some pointers for the integers we populated.
  DEFINE a pointer int* called 'numOnePointer' set to address of 'numberOne';
  DEFINE a pointer int* called 'numTwoPointer' set to address of 'numberTwo';
  DEFINE a pointer int* called 'numThreePointer' set to address of 'numberThree';
  //Printing memory addresses and their associated ingeter values.
  PRINT("Memory address for first integer: " + numOnePointer + " | It's integer value was: " +
numberOne)
  PRINT("Memory address for second integer: "+ numTwoPointer + " | It's integer value was: "
+ numberTwo)
  PRINT("Memory address for three integer: " + numThreePointer + " | It's integer value was: "
+ numberThree)
  //Deleting and freeing up that memory!
  DELETE numOnePointer:
  DELETE numTwoPointer:
  DELETE numThreePointer;
```

//Waiting for input as to not immediately close the console.

## **Main Program Output Console Screenshot**

```
Enter the first integer: 1
Enter the second integer: 23
iEnter the third integer: 456

Memory address for first integer: 00000172EAE07820 | It's integer value was: 1
t Memory address for second integer: 00000172EAE07CE0 | It's integer value was: 23
t Memory address for three integer: 000000172EAE07AAO | It's integer value was: 456
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```

## **Github Link**

CSC450 Workspace/CTA3 at main · Alpentater/CSC450 Workspace