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/// Comp 200 -- Fall 2023

/// Exam 1

#include <iostream>

using namespace std;

// In resize, you are to ask the user how many elements (i.e. spaces) they would like to add to the array.

int\* resize(int\* input, int& size) {

int addSize;

cout << "How many more spaces would you like to add to this array?" << endl;

cin >> addSize;

int\* resizedArr = new int[size + addSize];

for (int i = 0; i < size; i++) {

\*(resizedArr + i) = \*(input + i);

}

for (int i = size; i < size + addSize; i++) {

cin >> \*(resizedArr + i);

}

size += addSize;

return resizedArr;

}

int main() {

int size = 5;

int\* userArr[5]; // Starting array initialized with 5 values

int userInput = -1;

int count = 0; // Counter for each value added to array

cout << "Please enter a series of integers (enter -1 to exit)" << endl;

cin >> userInput;

int\* inputPtr = &userInput;

while (userInput != -1) {

userArr[count] = inputPtr;

count++;

if (count == 5) {

\*userArr = resize(\*userArr, size);

}

cin >> userInput;

}

// When the user finally enters a -1, you are to print the elements of the array.

for (int i = 0; i < size; i++) {

cout << \*\*(userArr + i) << " ";

}

cout << endl;

for (int i = 5; i < size; i++) {

delete userArr[i];

}

return 0;

}