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/*
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Course: CSCI-135
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Assignment: HW7.15
This program reads ints into an array until the user inputs 0.
#include <iostream>
#include <string>
using namespace std;
int* read_data(int& size) {
  int * arr = new int[size];
  int * temp = new int[size];
  int n = 0;
  int counter = 0;
  for (int i = 0; i < size; i++) {
    arr[i] = 0;
    temp[i] = 0;
  while (cin >> n && n != 0) {
    if (counter == size) {
      size *= 2;
      temp = new int[size];
      for (int i = 0; i < size; i++) {
       temp[i] = arr[i];
      for (int i = 0; i < size; i++) {
        arr[i] = temp[i];
    }
    arr[counter] = n;
    counter++;
  }
  size = counter;
  int * retVal = new int[size];
  for (int i = 0; i < size; i++) {
   retVal[i] = arr[i];
  delete[] arr;
  delete[] temp;
  return retVal;
}
int main() {
  int size = 10;
  int *arr;
  cout << "Enter any integer. 0 means stop." << endl;</pre>
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arr = read_data(size);
cout << "New size is: " << size << endl;
cout << "Current array state: " << endl;
for (int i = 0; i < size; i++) {
   cout << arr[i] << endl;
}
delete[] arr;
return 0;</pre>
```