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#include <iostream>
#include <string.h>
using namespace std;

struct RecType {
    int age;
    float weight;
    char gender;
};

int main() {
    // Steps 1 - 4
    int num = 5;
    int *intPtr = NULL;
    intPtr = &num;
    *intPtr *= 10;
    cout << "\n\tintPtr points to: " << *intPtr << endl;

    // Steps 5 - 10
    RecType *recPtr = new RecType;
    recPtr -> age = 25;
    recPtr -> weight = 190;
    recPtr -> gender = 'M';
    recPtr -> age += 5;
    cout << "\tThree fields pointed to by recPtr: " << recPtr->age;
    cout << " " << recPtr -> weight << " " << recPtr -> gender << endl;
    delete recPtr;
    recPtr = NULL;

    // Steps 11 - 15
    char *strPtr = new char[50];
    strcpy(strPtr, "Operating Systems");
    cout << "\tstrPtr points to: " << strPtr << endl;
    int lowercount = 0;
    for(int i = 0; i < strlen(strPtr); i++) {
        if(islower(*(strPtr + i))) {
            lowercount++;
        }
    }
    cout << "\tLowercase letter pointed to by strPtr: " << lowercount << endl;
    cout << "\tPrinting strPtr after adding 10: " << strPtr + 10;
    cout << "\n" << endl;
    strPtr - 10;
    delete strPtr;

    return 0;
}

```