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/*
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Assignment: HW7.1

This program sorts two numbers given their references.
*/

#include <iostream>

using namespace std;

void sort2(double* p, double* q) {
    double temp = 0;
    if (*p > *q) {
        temp = *p;
        *p = *q;
        *q = temp;
    }
}

int main() {
    double x = 20;
    double y = 15;
    cout << "x: " << x << endl;
    cout << "y: " << y << endl;
    cout << "sorting" << endl;
    sort2(&x, &y);
    cout << "x: " << x << endl;
    cout << "y: " << y << endl;
}

```