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// Implement Min, Max, Sum and Average operations using Parallel Reduction.
#include <iostream>
#include <vector>
#include <cstdint>
#include <omp.h>
using namespace std;
class ParallelReducer {
private:
    vector<int> arr;
public:
    ParallelReducer(const vector<int>& input) : arr(input) {}
    int parallelMin() {
        int min val = INT32 MAX;
        #pragma omp parallel for reduction(min:min_val)
        for (int i = 0; i < arr.size(); i++) {
            if (arr[i] < min_val)</pre>
                min val = arr[i];
        return min_val;
    }
    int parallelMax() {
        int max val = INT32 MIN;
        #pragma omp parallel for reduction(max:max_val)
        for (int i = 0; i < arr.size(); i++) {
            if (arr[i] > max_val)
                max_val = arr[i];
        return max_val;
    }
    int parallelSum() {
        int sum = 0;
        #pragma omp parallel for reduction(+:sum)
        for (int i = 0; i < arr.size(); i++) {
            sum += arr[i];
        }
        return sum;
    }
    double parallelAverage() {
        double total = parallelSum();
        return total / arr.size();
    }
};
int main() {
    int size;
    cout << "Enter size of the array: ";</pre>
    cin >> size;
```