

```
#include <iostream>

#include <vector>

#include <omp.h>

using namespace std;

int main() {

    int n;

    cout << "Enter number of elements: ";

    cin >> n;

    vector<double> arr(n);

    cout << "Enter elements: " << endl;

    for (double &x : arr) {

        cin >> x;

    }

    double min_val = arr[0];

    double max_val = arr[0];

    double sum = 0.0;

    // Parallel reduction for min, max, and sum

    #pragma omp parallel for reduction(min:min_val) reduction(max:max_val) reduction(+:sum)

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

        min_val = min(min_val, arr[i]); // OpenMP handles this reduction

        max_val = max(max_val, arr[i]); // OpenMP handles this reduction

        sum += arr[i];

    }

    double avg = sum / n;

    // Output the results
```

```
    cout << "Minimum: " << min_val << endl;
    cout << "Maximum: " << max_val << endl;
    cout << "Sum: " << sum << endl;
    cout << "Average: " << avg << endl;

    return 0;
}
```

OP:

Enter number of elements: 5

Enter elements:

123

45

6

678

98

Minimum: 4

Maximum: 678

Sum: 798

Average: 159.6