MIN, MAX, AVG, SUM

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g++ -fopenmp -o output filename.cpp
./output
1
#include<iostream>
#include<omp.h>
using namespace std;
int minval(int arr[], int n){
 int minval = arr[0];
 #pragma omp parallel for reduction(min: minval)
  for(int i = 0; i < n; i++){
   if(arr[i] < minval) minval = arr[i];</pre>
 return minval;
}
int maxval(int arr[], int n){
 int maxval = arr[0];
```

```
#pragma omp parallel for reduction(max : maxval)
  for(int i = 0; i < n; i++){
   if(arr[i] > maxval) maxval = arr[i];
  }
 return maxval;
}
int sum(int arr[], int n){
 int sum = 0;
 #pragma omp parallel for reduction(+ : sum)
  for(int i = 0; i < n; i++){
   sum += arr[i];
  }
 return sum;
}
int average(int arr[], int n){
 return (double)sum(arr, n) / n;
}
```

```
int main(){
  int n = 5;
  int arr[] = {1,2,3,4,5};
  cout << "The minimum value is: " << minval(arr, n) <<
'\n';
  cout << "The maximum value is: " << maxval(arr, n) <<
'\n';
  cout << "The summation is: " << sum(arr, n) << '\n';
  cout << "The average is: " << average(arr, n) << '\n';
  return 0;
}</pre>
```