Parallel For Loops: Prefix Sum

Question: Before starting, run all sequential codes on mamba using make bench.

1 Prefix Sum

Here is a sequential Prefix Sum:

```
void prefixsum (int* arr, int n, int* pr) {
  pr[0] = 0;

for (int i=0; i<n; ++i) {
    pr[i+1] = prefix[i] + arr[i];
  }
}</pre>
```

Question: Implement a parallel function using parallel loop constructs to compute the prefix sum of an array. Output the time it took on stderr. Use the template provided in prefixsum/prefixsum.cpp. Note that the data is generated by function generatePrefixSumData and the correctness of the result is checked by function checkPrefixSumResult.

Question: Run the code on mamba, in the prefixsum/ directory, using make bench. And then plot the results using make plot. Does the plot make sense? Why?