**Speeding up computation: parallel computing and Rcpp**

Biao Zhang, December 14th, 2021

Q1.

R codes:

Text

Description automatically generated

Output:

A picture containing logo

Description automatically generated

My codes return all indexes that the max is reached.

Q2.

R codes:

A picture containing text

Description automatically generated

Output:



Q3.

R codes:

A picture containing text

Description automatically generated

Output:

Chart, line chart

Description automatically generated

I used sourceCpp() for all my functions. Their codes could be found in the attached 10\_Lab\_Rcpp.cpp file.