Assingment 2
Submitted by:: Prashanna Rai

Erlang version used :: Erlang/OTP 24 [erts-12.1.5]

Conclusion::

The speedup was expected to improve by parallelizing the solver part i.e refining the rows of a matrix in parallel, but it didn't happen in reality. Since, my implementation made large number of process in each recursive call which in turn made slow in synchronization problem at result collection from processes. So, if we become smarter in choosing number of process that one process can create with the help of counter, basis on processor capacity, thread capacity,etc then we would be able to gain performance improvement. Also, I have implemented new version of zip which does zip operations between lists in tail recursive fashion. Implementing in tail recursive way, help me to pass the intermediate result in each call so when it reaches to base case, it was able to collect total result without waiting from its intermediate calls. Finally, I avoided the use of + operator for list concatenation, which was expensive process. Instead I make use of | operator for list concatenation.