\documentclass{article}
\usepackage[utf8]{inputenc}
\usepackage{enumerate}
\title{Lab 09}
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\date{May 5, 2021}
\begin{document}
\maketitle
\section*{Questions}
\begin{enumerate}[(a)]

\item It might be useful to have purely sequential, single processor, I/O routines to ensure that the parallel environment is running properly.

\item The study to be performed is a weak scalablity study because as the problem size N goes up, the number of processor increases as well. The tests to be run will be the timing test where the the amount of time for each of the corresponding write/read functions will be timed. The number of files that will be read/written is 25 for the 3 different pairs of read/write, resulting in 75 files read/written, of size 513, 1025, 32769, 1048577, 33554433 (\$+1\$ to account for the header).

\item N/A

\item Plot operations...I was not able to plot the curves. However, I expect the MPI I/O operations to be faster.

\item No anomolies in my result. However, I was not able to properly implement the c_mpi_read_Vector() function. I kept getting a seg fault and I spent hours trying to debug it to no avail. I was able to successfully implement the mpi_write_Vector() and it worked fine when I ran the test on it.

\item No assistance received on this assignment.

\end{enumerate}

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