Homework 2 (MPI)

1. This one will be much harder than the OpenMP
2. First we need to do some searching. In class, we covered a number of MPI functions and types, but there is no way to cover them all! Here are a few we will need for this homework.
    a. MPI_request
    b. MPI_Status
    c. MPI_Type_contiguous
    d. MPI_Type_commit
    e. MPI_Scatter
    f. MPI_Scatterv
    g. MPI_Irecv
    h. MPI_Isend
    i. MPI_Wait
    j. MPI_Reduce
    k. MPI_SUM
    l. MPI_MIN
    m. MPI_Barrier
3. Go online and search each other these and write a general description in your notes.
4. Ideally we would like to implement a 2D Mesh of processor, but in this case a linear order will be better because we will only need to check with other processors to the left and right.