Worksheet #33: Combining Task and MPI parallelism

Name: ___________________          Net ID: ___________________

Compute the critical path length for the MPI program shown on the right in pseudocode, assuming that it is executed with 2 processes/ranks. (Assume that the send/recv calls in lines 5 & 10 match with each other.)

```
1. int main() {
2.   if (my rank == 0) {
3.     finish { // F1
4.       async await(req) doWork(1);
5.       MPI_Irecv(rank 1, ..., &req);
6.       doWork(1);
7.     }
8.   } else {
9.     doWork(1);
10.    MPI_Send(rank 0, ...);
11.  }
12. } // main
```