Worksheet #32: MPI Gather

Name: _____   Netid: _____

```
1.    MPI.Init(args) ;
2.    int myrank = MPI.COMM_WORLD.Rank() ;
3.    int numProcs = MPI.COMM_WORLD.Size() ;
4.    int size = ...;
5.    int[] sendbuf = new int[size];
6.    int[] recvbuf = new int[???];
7.    . . . // Each process initializes sendbuf
8.    MPI.COMM_WORLD.Gather(sendbuf, 0, size, MPI.INT,
9.                          recvbuf, 0, size, MPI.INT,
10.                         0/*root*/);
11.   . . .
12.   MPI.Finalize();
```

In the space below, indicate what value should be provided instead of ??? in line 6, and how it should depend on myrank.