

## Worksheet #29: MPI Gather

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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.

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