

Math 36 — Daily Homework

Assigned: 10/18

Due: 10/20

1. In class we wrote code to sample from  $G(n, p)$ , which creates random graphs where the expected number of edges is  $p\binom{n}{2}$ . Modify the code you wrote or use the code I wrote in class (available under the resources tab) to sample from  $G(n, m)$ , the random graphs that have *exactly*  $m$  edges.

When writing your code, make sure that each edge is equally likely. The edge between 0 and 1 should be just as likely as the edge between 98 and 99.

The only thing you need to submit is your (well-commented) code.