Today

- Questions from homework?
- Coding an MCMC algorithm
- An example to work on

Rosenbluth algorithm aka Metropolis-Hastings

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Algorithm (original)
for many iterations

propose new value for parameter:

draw Unif(-max_d, max_d)

proposal = current parameter + draw

calculate the probability of accepting the proposal:

P_accept = min(Pr(proposal) / Pr(current), 1)

accept proposal randomly with Bern(P_accept)

plot posterior distribution (histogram) of parameter values
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where Pr() = prior x likelihood