## Dr. Z.'s Intro to Probability Homework assignment 24

Due, Dec. 16, 2017, 5:00pm to DrZprob@gmail.com.

1. Generate (empirically, not from your Head, and not from a computer) a random binary sequence of 1 s and 0 s of length 100 in one of the following mechanical ways (you may pick any of these, but once you decide, you have to stick to it, i.e. you can't switch in the middle)

- Toss a coin 100 times and record (in order) the sequence of Heads and Tails. If it is Heads, write down 1 if it is Tails write-down 0.
- Spin (the same!) dreidel 100 times and whenever you get Gimel or Heh write-down 1 and whenever you get Nun or Shin write-down 0.
- Roll (the same!) die 100 times, and whenever it is odd (i.e. $1,3,5$ ) write-down 1 , and whenever it is even (i.e. $2,4,6$ ) write down 0 .

Write the sequence in Maple list format, but with 20 per line
for example:
\#YourNameHere

$$
\begin{aligned}
& {[1,0,1,0,0,1,0,1,1,0,0,1,0,0,0,0,1,0,0,0} \\
& 1,1,1,1,1,1,1,0,1,1,0,0,0,0,1,0,0,0,1,0 \\
& 0,0,0,1,0,1,0,1,1,1,0,1,0,0,1,1,1,1,1,1 \\
& 1,1,0,0,0,1,1,1,0,1,0,0,0,0,1,1,0,1,1,1 \\
& 0,0,0,1,0,0,0,0,1,1,0,0,1,0,0,1,1,1,1,1]
\end{aligned}
$$

then Email them, no later than Dec. 17, 2017, 5:00pm, to
DrZprob@gmail.com
Subject: HW24
and then copy-and-paste the above into the body of your message.
Warning: Please no cheating! For example, if I get two identical submissions, the computer will detect it. The chance of that happening (w/o cheating) is $1 / 2^{100}$.

Comment: You don't have to do it all at once! You can take study-breaks and do, say, ten tosses at time.

