

**IAM 550, Fall 2019**  
**Self test 01, 10/25/2019**

Simple loop and sorting:

- Fill a vector A with 100 random numbers. The function rand returns random numbers in the range from 0 to 1.
- Use a for loop to scale the numbers in A so that they fall into the interval from -10 to 10, and store them in B.
- Use another for loop to sort the numbers into 3 vectors. All numbers in B that are below -3 go into C1, all numbers between -1 and 1 go into C2, and all numbers above 5 go into C3.
- Print out how many numbers are in each of C1, C2, and C3.