## BBM 205. Quit 9 18.12.2018

1. How many bitstrayer of length ten both begin and end with a 1?

2. How many positive integers less than 1000 are divisible by 7 but not by 11? (Use one of the cardinality rules in your onswer.)

3. A bowl contains 10 red balls and 10 blue balls. A woman selects balls at random without looking at them. woman selects balls must she select to be sure of having at least a) thow many balls must she select to be sure of having at least three balls of the same color? [N773.80, N=5.

By pigeonhole prihaiple, we need to find smollest N so that)

b) How many balls must she select to be sure of having at least three blue balls?

In the worst case, we draw all of the red balls will seeing three blue balls, that makes 10+3=13 balls.