* Missed the beginning, but seems like a chill guy.
* He really likes math problems. Likes thinking about them and has submitted one of them to the international math olympiad.
* Doing AADT and applied to the STAHR program
  + AADT takes 2-3 hours a week.
  + STAHR takes 2 hours a week.
  + So he thinks
* He is free for retreat next week

# Question

1. Investigator question
   1. Ask question about changing behavior after seen the first folder (good to think about the environment)
   2. Good at speaking and communicating his thoughts.
   3. “It’s good to put sensitive folders together.”
   4. If they are not together, there are 4 possibilities that the investigator finds a folder, but if they are together there are 3 possibilities that the investigator finds it.
   5. Correctly reaches the ½ answer.
2. D
   1. What factors go into your decision at any point
   2. Approximately 10.5 minus the value you are thinking of losing. When the current value is around 200, he would stop there.
   3. He would compute 1 + 2 + … + 20 = 210 (good at mental math)
   4. He would divide that by 19 since all the possibilities are equally likely to happen -> To calculate the expectation.
   5. The answer was very comprehensive and walked through the calculations explain each step.
   6. SECOND PART
   7. (19/20)^10 power . At the end he will have around 200, but given that this game lasts 18-20 steps, he can compute around .
      1. Each round he expects the winning to be 10.5, which means that he will stop on average after 18-20 rounds based on the 200 stopping limit.
      2. The final expected value is
         1. Just states out the expectation formula doing each probability of every value.
         2. PL = (19/20)^19 \* 10.5 \* 19 = 1/e \* 10.5 \* 19 ≈ 70
         3. Since you can’t lose by rolling 20 after the first turn
         4. D
   8. THIRD PART
   9. Suppose you have to choose the number of times to roll the die before the game starts, what would you do?
      1. For sure roll less than 20 roles, for sure roll 10-15 rolls.
      2. Roll 10-15 roles
3. Kitty Wang
   1. Resume: <https://drive.google.com/open?id=1eE28kZqaZal45jN2Oi2xEHr2aurhLfZA>
   2. Intro/behavioral (Juji)
      1. Why quant/HUQT?
         1. Learned about derivatives over the summer.
         2. He thought it was something overly complex and from the HFAC Quant club he was able to learn a lot more and he likes the vibe of the club so he wants to be part of it.
      2. Community
         1. Natives at Harvard
            1. Likes going to meeting. He is from the southeast chapel in north carolina which is different from the other regions.
         2. Seems chill, he said he got “freshman quaded”
      3. Other clubs you are involved in
         1. Part of the rugby team.
         2. HFAC Quant
            1. Attending lectures
            2. Trading games
      4. Commitment to the club.
         1. Sh
   3. Coupon collector (Doris)
      1. Part 1: How many boxes to make a complete set?
         1. Gets the probabilities really quickly
            1. Thinks abt it as a tree of probabilities
         2. Gets correct answer with minimal hints
         3. Has not taken STAT 110
      2. Part 2: Fixed number of boxes, how many expected distinct coupons?
         1. Gets hint to think about *n* serial boxes
         2. Is stumped by the *n* being a variables
         3. When asked “what is the probability that coupon one never appears in 10 boxes?” he gets it correctly.
   4. Easy die (Doris)
      1. Part 1 (intuitive answer)
         1. If you role a 1 on the six sided die
            1. If you roll a 2 there is a 1/10 chance of making nothing. 9/10 would at least be 2 or higher.
         2. Walks through a tree of possibilities.
         3. Good at quick math and estimation. Very numerical.
         4. Around 4 to 5 threshold he gets it right. Doris explains the thought process in terms of expected value. Correct is 4 or lower is a reroll and 5 or up you keep.
      2. Part 2 (calculating threshold)
   5. Mcdonald's (Doris) - skipped
      1. Coin flips (3 coins)
      2. Coin flips (20 coins)
      3. Chicken nuggets
   6. Vibes (Doris):
      1. Her love language is acts of service.
      2. One of her friends wanted hot water but not tea, so she got an electric kettle and went to her dorm and set it up.