- 9. Complete the following assignment prior to Meeting # : 3
  - A. Study our notes from Meeting #12.
  - B. Comprehend Jim's sample response to Quiz 12.
  - Solve Lunar's problem and display your computation (As usual upload the resulting pdf document on the appropriate Canvas Assignment link):

The Osceola jail contains a row of 10 cells. Each of 10 inmates is randomly assigned to exactly one of those side-by-side cells. None of the 10 prisoners are exhibiting symptoms of the COVID-19 disease. However, unbeknownst to the correction officers who manage the jail, 5 of the 10 prisoners are carriers of the COVID-19 virus. Lunar would like to determine the probability of the event that no uninfected person occupies a cell next to an uninfected person.

From the Video Page of Canvas, view with comprehension the video "permutations." E.

F. Comprehend Jim's sample responses to the homework prompts that are posted on P(no uninfected is next to uninfected) = ?

120 +120 + 120 + 120 = 450

These are the only 2 options, but people can being any spot ...

5! · 5! = 14400 for the Aret option + 14400 for second option 28800

P(no uninfected next to minfected) = \frac{28800}{10!} = (.008)

I needed to look at your sample solution to see how to use the 5! I know that somehow I would need to count all the rags they could be arranged in the 2 mays, but I wasn't sure how to count that as a permutation