ECS 315: In-Class Exercise # 1 - Sol

Instructions

- 1. Separate into groups of no more than three students each.
- 2. Explanation is not required for this exercise.
- 3. Do not panic.

- Date: 20/08/2019

 Name
 ID (last 3 digits)

 Prapun
 5 5 5
- 1. (6 pt) A student played the Monty Hall game six

times. Each time, he always chose to switch his choice at the last step. The results were recorded

below with W for winning (getting a car) and L for losing (getting a goat).

LWLWLL.

Let *A* be the event that he won.

Let R(A,n) denote the **relative frequency** of event A for the first n plays.

Recall that, to find the relative frequency of an event A for the first n trials, we use the formula:

$$R(A,n) = \frac{N(A,n)}{n} = \frac{\text{#trials that } A \text{ occurs}}{n}$$

Calculate R(A,n) from n=1 to n=6. Write your answers in the form X.XX.

n	1	2	3	4	5	6
R(A,n)	$\frac{0}{1}=0.00$	$\frac{1}{2} = 0.50$	$\frac{1}{3} \approx 0.33$	$\frac{2}{4} = 0.50$	$\frac{2}{5} = 0.40$	$\frac{2}{6} \approx 0.33$

Note how the denominator is increased as we increase the value of n.

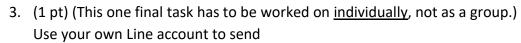
- 2. (3 pt) List <u>all</u> of Dr.Prapun's office hours during <u>next week</u>.
 - Hint: Check Google Calendar on the course website.

Note that there are two types of office hours: normal and document signing. Put both types in the table below. If there are overlapping office-hour slots, "union" their time intervals first before putting

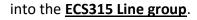
the result in the table below.

Many students are				
uncertain or shy				
about utilizing a				
professor's office				
hours. Don't let that				
be you! Each				
professor should				
hold office hours, a				
designated time in				
which the professor				
is available in his or				
her office to speak				
individually with				
students.				

Date	Time		
Date	From	То	
August 26, 2019	10:00	10:40	
August 27, 2019	14:30	15:30	
August 28, 2019	15:00	15:30	
August 29, 2019	15:00	15:30	
August 30, 2019	14:30	15:30	



your student id, followed by your full name, and then your nickname inside the parentheses



Example: "50764555 Nadech Kugimiya (Barry)"

Remark: If you don't have a Line account, email the message as instructed above to prapun@siit.tu.ac.th.





