Lec18_3

R Markdown

- a. Poisson. Because the count of children has no upper limit.
- b. Binomial. Because the variable "if the first child is male" has only 2 possible values which are yes or no(special cases exist in real life, but in general this is an yes or no qustion).
- c. Poisson. Becasue the number of one picked up his/her phone within a time range can potentially take any values.

d.

- i. Poisson. Number of people is not restricted with 0 and 1.
- ii. Binomial. One either got on the bus or not, so the variable only has 2 possible values.
- e. Poisson. within a time period, the word can appear many times with no maximum amount.
- f. Binomial. Professor either has at least one typo or no typo at all, therefore only 2 possible outcomes.
- g. Poission. The number of sleeping students during a lecture may take any values, and this number is unlikely to be upper bounded by 1.