

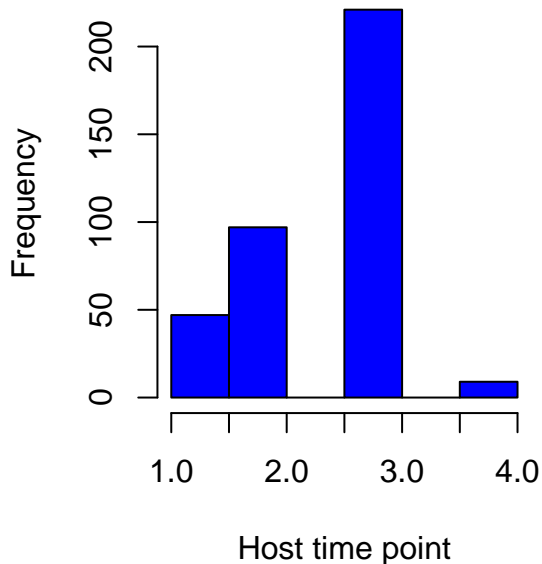
# **Task 1**

Inferences from analysis on the epidemiology dataset while comparing clone in respect to host time point, and para time point.

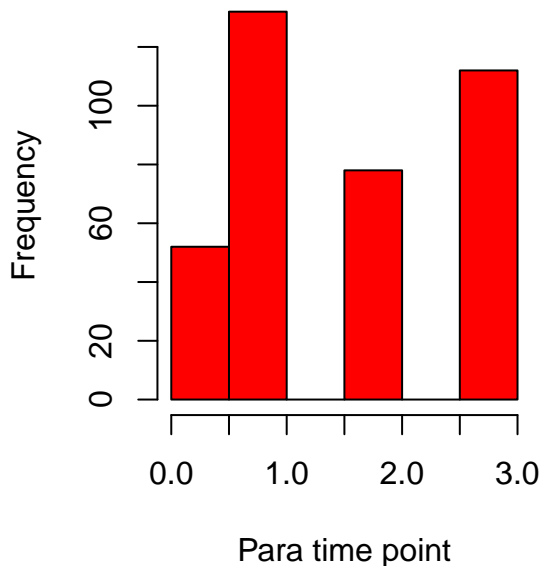
It was observed that the host time point moved in a parabolic motion which is equivalent to the bacteria growth curve (from a lag phase to a log phase and adopted a decline phase after attaining a stationary phase), but the para time host was observed to move in an undulating motion, hence, the lower the clone the lower the para time point across board.

Further confirmation are seen in histogram plots on Page 2, Fig A and B respectively.

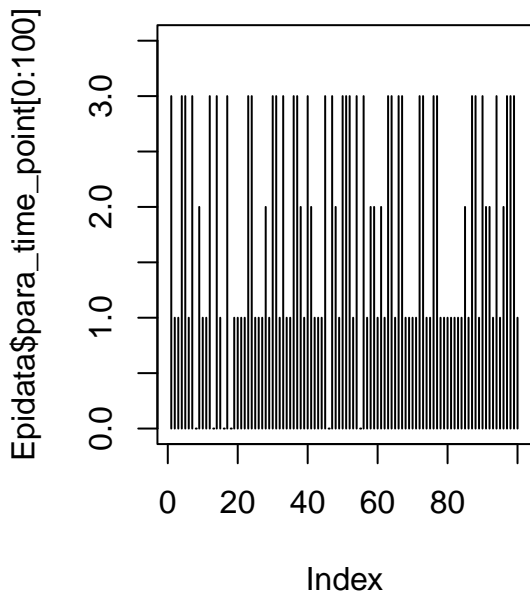
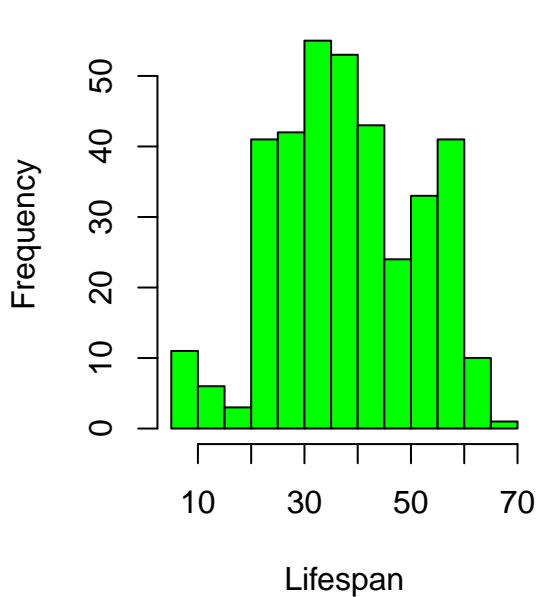
**Host time point representation**



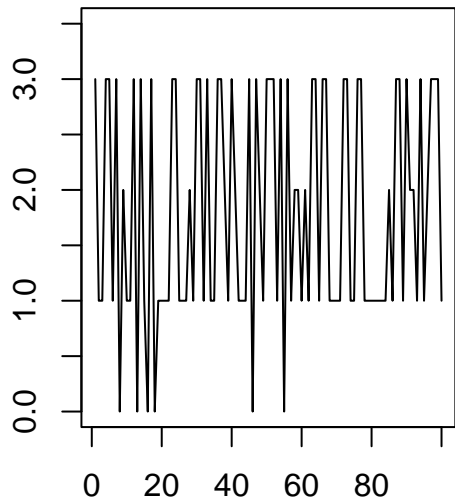
**Para time point representation**



## Lifespan representation

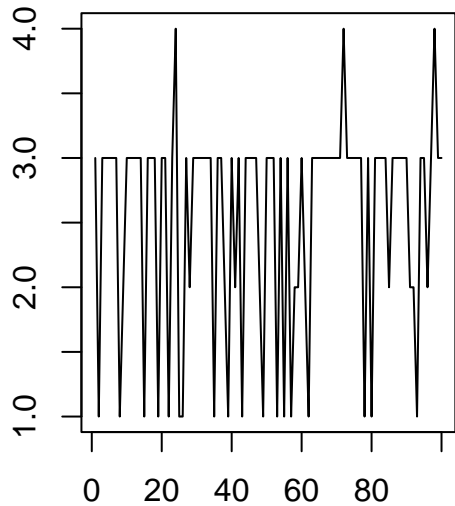


Epidata\$para\_time\_point[0:100]

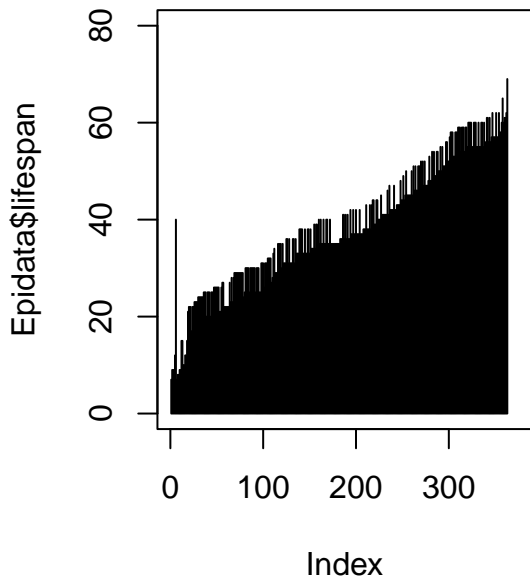
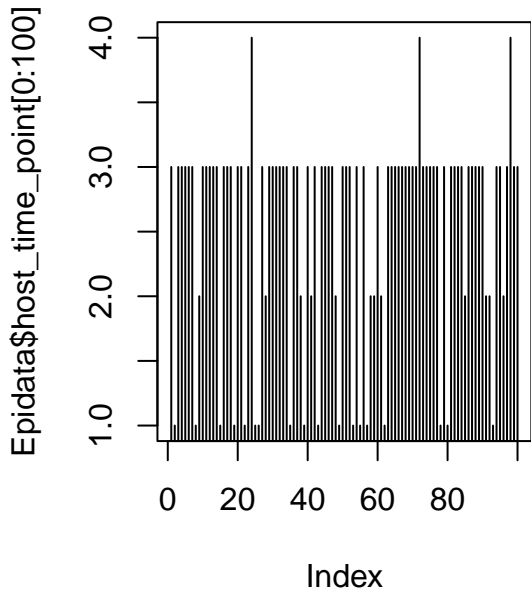


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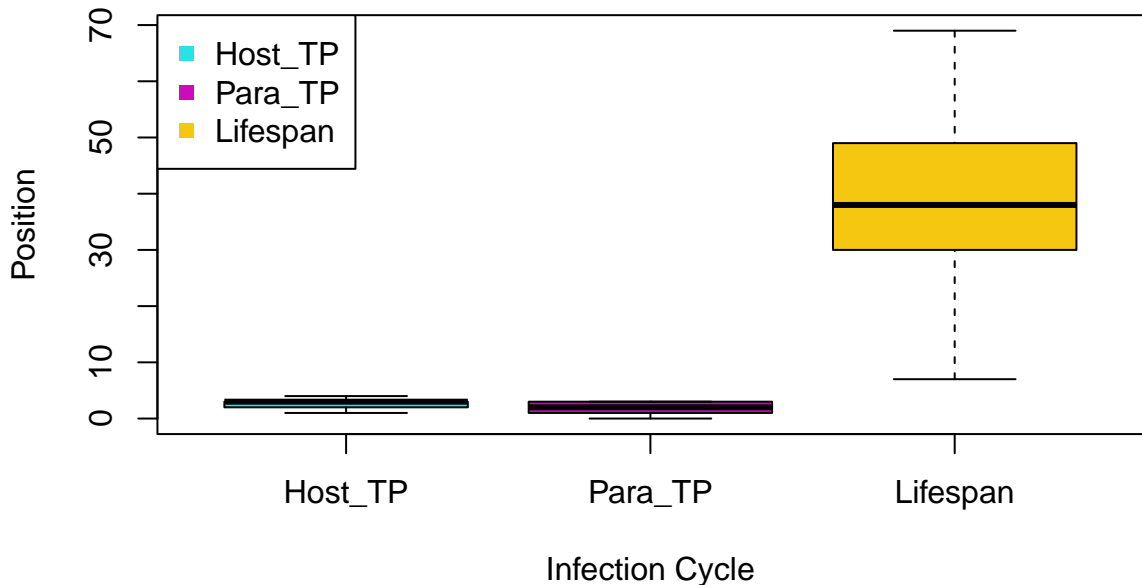
Epidata\$host\_time\_point[0:100]



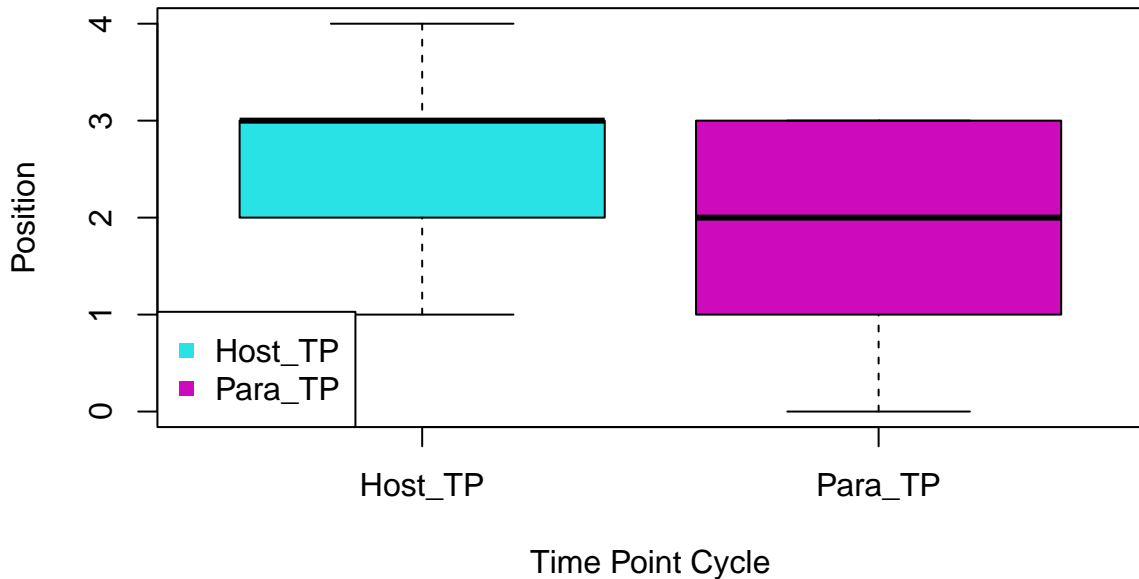
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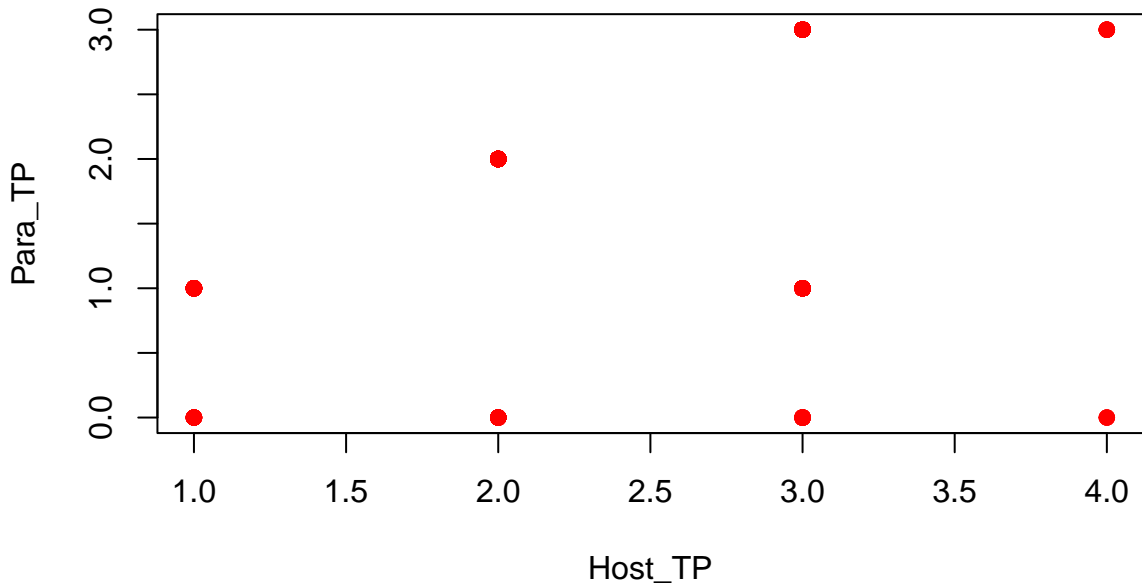
# Representaion of Host Time Point, Para Time Point & Life Span



## Representation of Host Time Point & Para Time Point

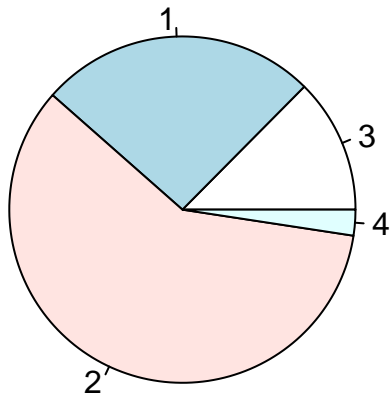


**Time Point (Host Vs. Para)**

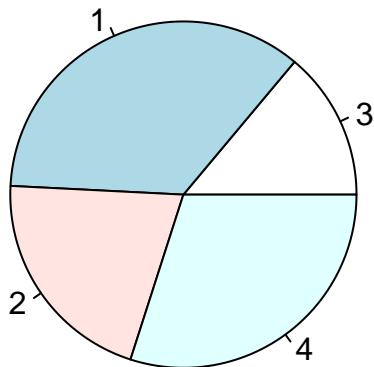




**Pie chart of Host\_TP**



**Pie Chart of Para\_TP**



# Heatmap Plot of Host\_TP, Para\_TP & Lifespan

