

VetPath 571 – Spring 2021  
Problem Set 4

You have been provided with a data set of character deaths from the television series “Game of Thrones”. It consists of the following variables:

- Name: The name of the character
- Allegiances: The fictional faction within the series the character is most associated with
- Book of Death: Which book the character dies in (if any)
- Male: Whether or not the character is male
- Nobility: Whether or not the character is a noble
- Book 1 to Book 5: Which book the character was introduced in

- 1) What is the origin of the time at risk for death of a character?
- 2) Using your answer from 1, construct the appropriate variables for both an event indicator and the event time. Hint: `is.na()` can be used to generate a True or False values for whether or not a particular value is NA, which may be useful.
- 3) Conduct some exploratory data analysis. What is the overall number of books a character survives? Are there some single variable associations with survival that seem interesting?
- 4) Choose a exposure variable of interest, and model the effect of that on character survival, adjusting for other relevant variables. You may choose the modeling approach, but show your work.