# Report on fairness of sailing scoring

## Problem

In this coursework I am investigating how sailors score in a series of races, how performances of sailors fluctuate and how the consistency of their performance affects their score.

## Method

*Summarize the method you are using to investigate the problem.*

***Report marking criteria – is the method stated with sufficient detail to allow someone else to replicate the results?***

To solve this problem, I will be using Python 3.7.1 to create a program with a series of functions, one of which reads an external csv file. Once the csv file is read another function (generate\_performance) adds the data from the file to a dictionary (performance\_list). Another function (calculate\_finishing\_order) then generates the scores for each of the sailors in the series and puts this data into a list (finishing\_order) and then sort’s it into the order of how they finished. However, in a series of races the sailor’s worst performance is discarded and the sum of the remaining performances calculated, to do this I added two other functions (series\_score and sort\_series) the first of which generates the score for the sailor and the second of which sorts the series of sailors into order of their performance.

## Assumptions

*What assumptions have you made that may affect the results?*

***Report marking criteria – are the key assumptions listed?***

1. That the sailors attend all races
2. That the sailors scores were between 1 and 5
3. That all series have 6 races

## Results

*Show the results of your simulations – including one figure that allows easy comparison. Explain what the results show.*

***Report marking criteria – are the results clear and well-presented? Are appropriate figures used? Are figures labelled and titled?***

## Conclusions

*Briefly summarize your progress towards solving the problem, highlight any limitations and potential future extensions.*