Spec

Goal: User wants to design a valid ACP Brevet with opening and closing times. ACP Brevets consist of between 2 to n checkpoints($t_n$) spread linearly from x=0km to x=1000km*

the starting time of the race($t_0$) should be configurable by the user in the format of 24 hr time(HH;MM) and starting date (DD/MM/YYYY)

it is assumed all checkpoints are within the same time zone but optionally can be labeled with location titles

For any correct implementation the following will be true

Control chart

| | | |
|---|---|---|
| 0-15 | 1* | 1* |
| 15 - 200] | 15 | 34 |
| 200-400] | 15 | 32 |
| 400-600] | 15 | 30 |
| 600-1000] | 11.428 | 28 |
| 1000-1300 | 13.333 | 26 |

to avoid ambiguity we will consider any quantity less than the upper bound] contiguous and any value = or greater associated with the next group up.

*UI will visually indicate 1000+ is non standard

By the rules, the overall time limit for a 200km brevet is 13H30, even though by calculation, 200/15 = 13H20. The fact that the route is somewhat longer than 200km is irrelevant.