

# DS 1: An Introduction to Programming

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January 23, 2020

## GOALS :

- (a) Create a program that will accept a value of precision `prec` of your velocity measuring apparatus, and find  $\Delta t$  such that the calculated velocity is independent (up to `prec`) of  $\Delta t$ .
- (b) Use this code to compare the value of  $\Delta t$  obtained using the “normal” integration mentioned in class, and the “mid-point” integration mentioned in class. Which is more “efficient”?