

# FYS3150 - Project 1

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September 4, 2016

**a)**

## Counting the number of timesteps

There are three different steps to compute:

$$\tilde{a}_i = a_i - \frac{b_{i-1}c_{i-1}}{\tilde{a}_{i-1}} \quad (1)$$

$$\tilde{f}_i = f_i - \tilde{f}_{i-1} \frac{c_{i-1}}{\tilde{a}_{i-1}} \quad (2)$$

$$u_i = \frac{\tilde{f}_i - b_i u_{i+1}}{\tilde{a}_i} \quad (3)$$