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$$\rightsquigarrow y_1 = y_0 + h \cdot f(t_0, y_0)$$

$$y_2 = y_1 + h \cdot f(t_1, y_1)$$

$$\vdots$$

We obtain the (explicit) Euler method (EE)

$$y_{j+1} = y_j + h \cdot f(t_j, y_j), \quad j=0, 1, \dots, N-1$$

A.k.a. Forward Euler