



Now: IF: $|y_{j+1} - \tilde{y}_{j+1}| \leq \text{tolerance}$

accept step

↳ AbsTol or
RelTol in
MATLAB

Else:

repeat step with smaller step size
and check again

Rem.: (i) the more precise method (method 2) could be of higher order than method 1 or method 2 could be the same as method 1 but with a smaller step size h (substeps!)