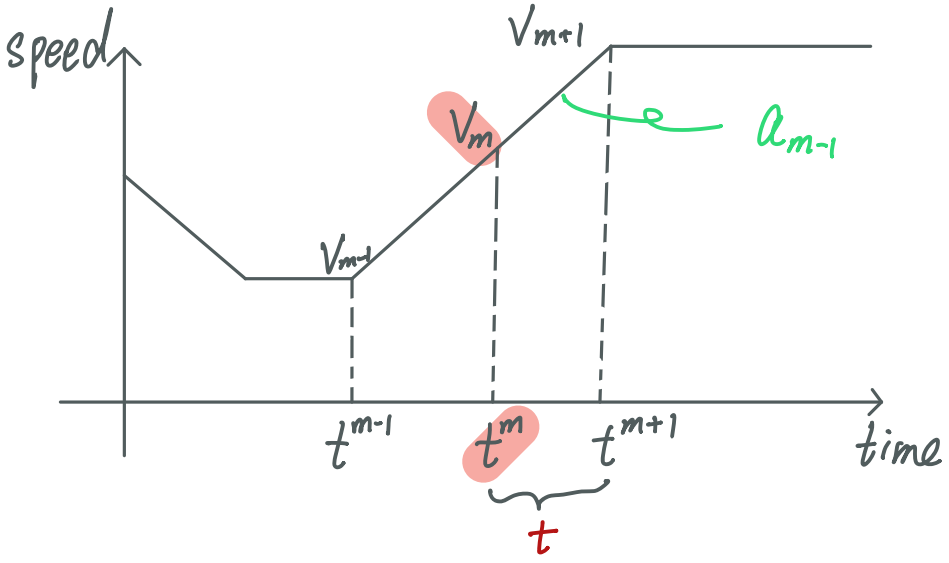

unknown

$$2a_{m-1}dij = V_{m+1}^2 - V_m^2 \quad \Rightarrow \quad V_m = \sqrt{V_{m+1}^2 - 2a_{m-1}\,dij}$$

$$V_{m+1} = V_m + at$$

$$t = \frac{V_{m+1} - \sqrt{V_{m+1}^2 - 2a_{m-1}\,dij}}{a_{m-1}}$$

$$t^m = t^{m+1} - t$$

$$= t^{m+1} - \frac{V_{m+1} - \sqrt{V_{m+1}^2 - 2a_{m-1}\,dij}}{a_{m-1}}$$