7.15. a

Events: time of shock

Variables: t_s: time of shock "s"

X_s: initial size of shock "s"

net shock damage: ASV:

$$\boxed{T, ASV} \longrightarrow \boxed{\begin{array}{l} \text{gen } X_i \\ \text{gen } t_i \end{array}} \longrightarrow \boxed{\begin{array}{l} T += t_i \\ ASV = \sum_{i=1}^{N_S} X_i e^{-\alpha(T-t_i)} \end{array}}$$

if $ASV < C$

if $ASV \geq C$

return T
stop