Proof of Correctness - Dijkstra (Formal)
(IEEE Tutorial Paper by Gries)

Method of Design by Proof

\[ \{P\} \quad S \quad \{R\} \]

S - program statement
P,R - program assertions

\[ \Rightarrow \text{ if execution of S is begun where P is true, then on termination R will be true} \]

B - boolean
t - integer function
t_0 - integer constant