Proof of Correctness - Dijkstra (Formal) 

(IEEE Tutorial Paper by Gries)

Method of Design by Proof

\[ \{P\} \ S \ \{R\} \]
\[ S - \text{program statement} \]
\[ P,R - \text{program assertions} \]

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

\[ B - \text{boolean} \]
\[ t - \text{integer function} \]
\[ t_0 - \text{integer constant} \]