

7. Proving an algorithm



correctness

- Correctness has to be proved for every algorithm.
- To prove that the algorithm yields a required result for every legitimate input in a finite amount of time.
- A proof of correctness requires that the solution to be stated in two forms : **Assertions** that deals about input and output variables of the program and **Specifications** that is expressed in predicate calculus.

Proving Algorithm Correctness People

Daniela Niemeyer



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