



# Limitations of Testing

- **Difficult to establish that a program is free of non-terminating loops**
- **Even in a loopless program - while solving nonlinear equations finding input that take the same path is difficult**
- **It may not be possible to tell whether a result is correct - Test Oracles (Eg:- Complex Non Linear Problem) - Result will be accepted as long as it "looks reasonable"**
- **Sometimes verification of a result is easier than its computation (Eg:- Hamiltonian Path Problem)**