Design by contract and static verification

Static checking
Tools for checking contracts

- A number of tools exist for statically checking that contracts are respected.
- These tools work by a combination of symbolic execution, automated theorem proving, and model checking.
- They do not test the code, they verify it!
Tools for checking contracts

Some examples include

- Esc/Java2
  - http://secure.ucd.ie/products/opensource/ESCJava2/

- Spec#

- .NET Contracts