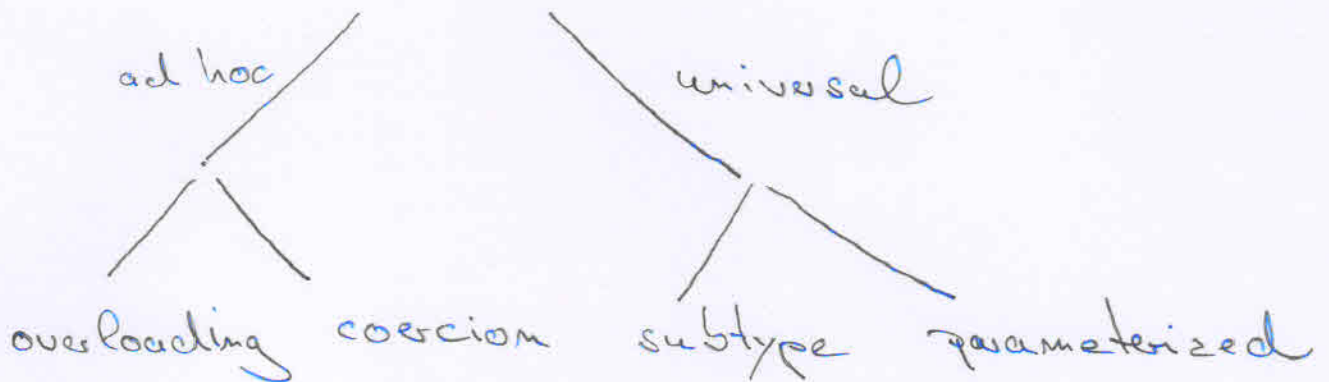


Generic Programming

- maximal reuse
- code with different types
- programming with polymorphism



- programming with concepts
- generalizing algorithms / software components / libraries
- "designing algorithms working in the most general setting without loss of efficiency"

A. Stepanov, D. Rose;
From Mathematics to
Generic Programming

sort :: array<int> -> array<int>

sort :: array<T> -> array<T>

sort :: [T] -> [T]

concept : (S, ≤)

sort :: [S] -> [S]

↳ bounded polymorphism

Planowane referaty

3

1. Java
2. C++/STL
3. Haskell
4. Scala
5. Eiffel
6. Ada
8. Concept C++
9. Tecton
10. Mizar - wstep
11. Mizar - dowody
12. Mizar - struktury