

Sintaxa OCL

- **Invariant**

context <class name> **inv:** <Boolean OCL expression>

- **Preconditie**

context <class name> **::** <operation> (<parameters>) **pre:** <Boolean OCL expression>

- **Postconditie**

context <class name> **::** <operation> (<parameters>) : (<result>) **post:** <Boolean OCL expression>

- **Tipuri de baza OCL impreuna cu operatiile asociate:**

- o Boolean: and, or, xor, not, implies, if-then-else
- o Integer: *, +, -, /, abs()
- o Real: *, +, -, /, floor()
- o String: concat(), size(), substring()

- **Valori anterioare in postconditii**

- o variabila@pre
- o Valoarea unei proprietati intr-o postconditie este valoarea proprietatii dupa executia operatiei. Pentru a putea referi valoarea proprietatii la inceputul operatiei, numelui proprietatii i se adauga cuvantul cheie "@pre".

- **Operatii pe colectii**

collection-> sum()
collection-> size()
collection-> collect(element:Type | <expr>)
collection-> select (element:Type | <expr>)
collection-> forAll(element:Type | <expr>)
collection-> exists(element:Type | <expr>)
collection-> isUnique(element:Type | <expr>)
collection-> isEmpty()

- **allInstances()**

- o rezulta in setul tuturor instantelor unui tip la un moment dat cand expresia este evaluata.