### Summary of Object Model Notation for Code

**6.170 / Lab in Software Engineering / Fall 2005**

**Diagram:**

- **class:** S
- **abstract class or interface:** Ŝ
- **abstract class:** S
- **interface:** S

**S1 extends or implements S**

**Multiplicities**

- ? zero or one
- ! exactly one
- + one or more
- * zero or more

**F is a field from S to T with multiplicities m and n**

Associates n T's with each S, and maps m S's to each T

**F is an indexed field from S to T with multiplicities m and n**

Associates n T's with each S and i, and maps m S's for a given i to each T

**Target final marking:** over lifetime of each S, set of T's associated with it is unchanged

**Source final marking:** over lifetime of each T, set of S's mapped to it is unchanged