Positional rumbering system 200, 10,,0,,00 be be ci S define on alphabet Σ Astring X of an elements from $Z:X_n \in \Sigma^n$ Apply X_n to a valuation function For a base-10 system (mdix=10): 277 = 10 = 702/01/10° (r) F + (01) F + (50) = 3How do you choose a representation? - representation of special values (age (eg. 0)
- range of values that an be represented
- efficiency of implementation (common operations? Unsigned integer representation: F: X - 1 . 2 / - 1 + X n - 2 : 2 / - 2 + ... + X 0 . 20 Range: 2h - 1 (total 2h, but one is all 0s)
Representation is good Can overflow, so have to detrees - cary.