record.sml Mar 24, 04 11:32 Page 1/1 (* Author: Flavio Lerda *) (* 15-212 Section C *) (* Code from recitation *) (* March, 24th 2004 *) type person = { name: string, age: int }; **val** person1 = { name = "Jack", age = 27 }; **val** person2 = { name = "Michael", age = 22 }; val person3 = { name = "Samantha", age = 21 }; val people = [person1, person2, person3]; (* val age_of : person -> int *) fun age_of (p: person): int = #age p; val a1 = age of person1; val age_of' = #age Error: unresolved flex record (can't tell what fields there are besides #age) (* val average_age : person list -> real *) (* average_age l returns the average age *) (* of the people in the list fun average_age (1: person list): real = let val ages = map #age 1 val reals = map real ages val sum = foldl op+ 0.0 reals val count = length l sum / (real count) end; val a = average_age people; datatype pet_kind = CAT | DOG | BUNNY type pet = { name: string, age: int, kind: pet_kind }; val pet1 = { name = "Fluffy", age = 3, pet_kind = BUNNY } val a2 = #age pet1; val a3 = #age person3; (* $val = age_of pet1;$ Error: operator and operand don't agree [tycon mismatch] operator domain: person {age:int, name:string, pet_kind:pet_kind} operand: