1. Perfaining to basic set operations Lest mouthink everything in this direction is biring - even for finite sets consider me problem et competing the intersection of a collection of sets (rep. as lists without repetition) in which any of the sets might Basic Design (recursive) recursively compute

(intusect (cdr L)) (intersect (can L)

In vanilla functional scheme — how would we arrange for early ext should (say I he 128th of the 129 sets input)
Turns out to be ()? This is a motivating example continuations Scheme has 1st-class continuations was first for This and still me of very few languages to offer this kind of Dower.

The scheme feature call/cc Cshort for call-wiln-currentcontinuations alows the early exit of all kings of The continuation is perhaps The most powerful flow structure IN Programming.

Nood First reference

The Seasoned Schemer

Good seimod reference — EOPL (seimod Ed) also talks about cps Continuation-passing-style its routine for a vaniable to be both free and bound in a single exp. eg free bound (+x1)) 2)) But of wrop this wish a lamber (x) (lambdh (x) ) lo free vanishes.

(lambda (x) (+ x (lande(x) (+ xi)) 2)Ja-vanistim (change outer x to y) (+y)((x)(+xi))z)Questim: can lexual addresses be Used to guide This substitution? Come BACK.

let does NOT bend The internal retenony endresult: This jocal fact is L LE LACTING -The same reason we cannot

e containing (1et (x 1)M R (M) X X MSTAGN.

YM-exp clause in lambda-calculus-subst (and (element-of? (unparse-expression subst-id) free-vars-exp) (equal? (parse-expression id) subst-id))

ho boy of the amplifier ANN X S + CQ IN THIS body, even hough , s not foi in the town expression. (3) (lambda-calculus-subst E, E2 x)

15 Supposed to compute

Standard

E, E2 x

Jogical

Addating replaced by Ez, without variable

10 Clambok-calculus-substexp substexp s