Willis Allstead

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CS 326

HW4

* 1. Postfix: b b b \* 4 a \* c \* - sqrt + 2 a \* /
  2. Prefix: / + b sqrt - \* b b \* \* 4 a c \* 2 a

1. (pseudocode)
   1. A and B

if (A) {

if (B) {

// code here

}

}

* 1. A or B

if (A) {

// function to call

} else {

if (B) {

// function to call

}

}

* 1. while loop:

line = read\_line();

while(!all\_blanks(line)) {

process\_line(line);

line = read\_line();

}

* 1. do-while loop:

do {

line = read\_line();

if (!all\_blanks(line)) {

process\_line(line);

}

} while(!all\_blanks(line));

1. tail-recursive factorial function “fact”:

(define (fact-helper n m)

(if (= n 1)

m

(fact-helper (- n 1) (\* n m))))

(define (fact n)

(fact-helper n 1))