

## Right - Left Rule

- 1. go right until you hit a right wall (')')
  2. then go left until you hit a left wall ('(')
  3. jump out + repeat

## examples:

- 1) char \* const \* p; p is a pointer to a const point tochar
- 2) int \*a[100]; a is an array of 100 pointers to int
- 3) int (\*a) [100]; a is a pointer to array of 100 ints

what is the difference between a pointer to an int and a pointer to an array of 100 ints? int \*p;  $p[0] \rightarrow 1$  int int (\*q) [100];  $q[0] \rightarrow array of 100$  ints

4) int add (int, int);

p is a pointer to a fn that takes 2 ints + returns int

examples cont:

5) int add (int, int); int sub (int, int); int mult (int, int); int dir (int, int);

int (\* ops[4]) (int, int); ops[0] = add; ops[1] = minus;

We can also use:
(int (\* ops[]) (int, int) = {add, mius, mult, div};

We can index into ops and call the corresponding friprint f("%d\n", (\*ops[1])(2,3));

ops [1](2,3)

A complicated example I had a star family

void (\*signal (int, void (\*) (int))) (int);

signal -> returns a function pointer 7 2 fn pointers

2nd param -> is also a function pointers - have the same type

SIGSEGV