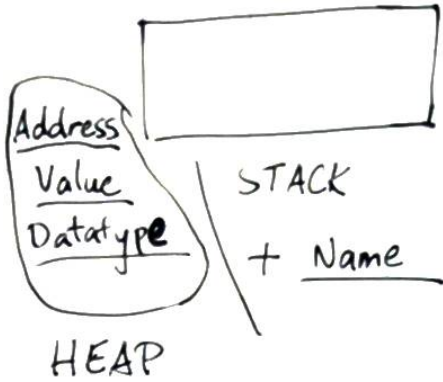


Memory

struct = class - methods

6/19/17



{ //static array size determined before compile.
int ia[10];

STACK HEAP

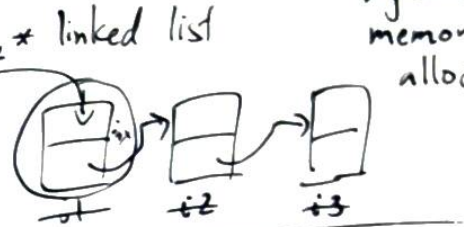
Dynamic memory allocation

struct record r[100];



struct point
{
int x;
int y;
}

struct record
{
int acctno;
char name[25];
char address[80];
struct record * next;
}



NULL - 0 (pointer datatype)

STACK

NULL or not null
start

3332 acct no
Dave name
3333 address

input

add record

Work backwards
Trace → Pseudocode

Dangling pointer
Memory leak



{
int *p;
*p = 10;
printf("%d", *p);
}

delete record

STACK

12100
start
222 acct

value ?

allocate space of the heap and store its address in the next field of the record whose address is in temp.

