Object Lifetime for Instances of Classes

```
Class barn {
public:
```

Reminder: Allocation

Reminder: Initialization

barn: barn (sizet num Stalls)

: C_ Enew CowtEnum Stalls],

num Stalls_ Enum Stalls}

{

for (sizet i = 0; i cnom Stalls) ++i) }

c-Ci] = new Cow & bessie", 33;

3

Default Constructors

if we don't wri header: barn(), Synthesized by implementation: barn: barn () c_&"bessie", 33, num Stalls-243 -> defailt constructor for all of the data members

Parameterized Constructors

barn (string cow Name, Size-t cow Spots, Size-t num Stalls) header implementation: barn: barn (string cowname, si zert cowspots, sizert norm Stalls)

: C_ Zcowname, cow Spots) Zame order num Stalls_ Znum Stalls Justin the 1 (nothing to so

Copy Constructors

header: barn (barn & other);

implementation: const barn::barn (1 barn & other) : C_ Eother.c_3, num Stalls_ Eother. nump? 2 11 nothing to do

Destruction: HOW (Destructors)

header: ~barn () raplementation: bara: ~barn () { for size t i=0; i < num Stalls_, ++i) & 3 delete c'Ei], deletels c-;

Assignment Operator

barn c', c=b', \(use.\) make clook like