Discussion of MS2-Past II
1 Clark sies
2- segment headers: use + complications
3- walk through the implementation of MSZ
1.) Block Sijes /memtest - & ablock-sije> -saheap-sije
1/LB (2275
-= block-size
Leap-sije
- memory is allocated in multiples of block-size
ΓΠαΝος (3.5 kB) 7
Malloc (3.5 kB) Ly 4kB
- Segment Headers
[khyth []
Tree(-a)
Further 2 small complications
1. Allocate:
sizeof(SH)
Size of (SH) +x Syks + round up!

2. Allocak / Free ptr = Malloc (-length) How do I get ptr?! void * ph = (void+) ((chu+) seg + size of (SH)); Free (vaid * -a) (SH+) ((chv+) -a = sigeo (SH)); add seg to the freelist.

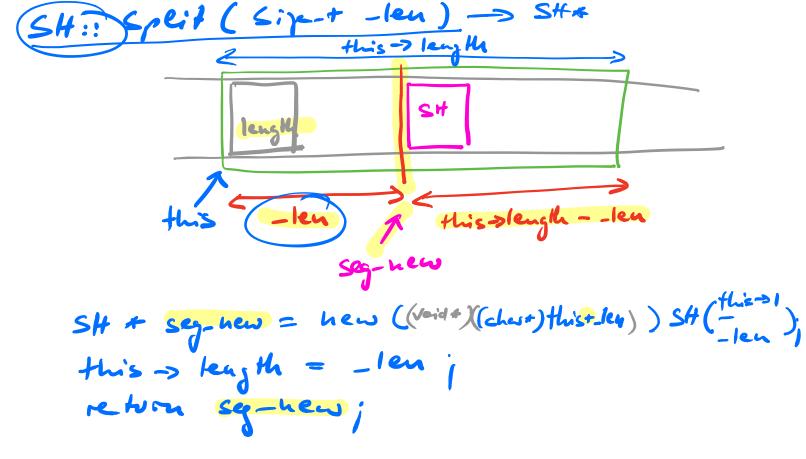
Walk through the implementation of 1752 Yeregs: You have a working Freelist class! Recall: FL is just a doubly-linked list of SH's. MAKE SURE THAT YOUR FL works & Constr. Add Remore My Allocator: coust. start = std:: malloc(---) like in Ms1 2. creak a SH with length "six" using "placement new": SH * seg1 = new (start) SH(sige); 3. make some that we have free_list constructed. 4. free-list -> Add (seg 1)

~ MyAllocator() same as for MSS

Free (void x-a):



Malloc (sige-+ -length): round up to went multiple of block sign sige + len = [-length + sige of (SH)] to ment woll thought of Worksing 2) find a long-enough free segment. SH # seg = free-list => (kad()) while (seg!= will &l seg > length < len) Seg = seg -> west; if (eg == null) -> return null ; remore seg from free-list 4.) if (seg-> length > 1en) & 5.) SH * seg2 = seg -> Split(len); free-list -> Add (seg2); 6.) void * pt = (void *) ((ches *) seg + = ijeof(St));



Dignostics

- lot of points arithmetic

- casting

SH

Codeie

Ox BADBPP;

Check Valid()

Height

Prod

Used