CS 326-01 P1 Design, Local Dev Advanced Heap

Bootstrapping

The problem: sh needs we

sh needs working muller/free.

Tempsolution:

We have

Void Free(p)

Void * malloc_name(n,s)

Void * malloc(n)

add mulloc_name_given()

NAUC Malloc()

C 411

mullo-uanagivias)

ndd myfree (p)
have mentest call myfree
mentest calls
ucllar_name ()
myfrec()

```
p= malloc (nbytes)
       malloc_name (nbytes, name)
  free (P)
P= malloc-name (nbytes , name)
     it (n64tes & BLOCK-MIN-SIZE)
             nbytes = BLOK_MIN-SIZE-
        = find-free_bl-ck()
```

```
rejuest_more-hamp()
L amt= nbytes = size of (Struct block-hdr)

Determine request-size
    it ( last block in block list is free)
         amt = amt - (size of (struct block-holr))
                       t fossize)
     Determine requests ize back or ant
      Sbrk (request-sile)
Mohe new free block
    if (last block in block list is free)
     merge (last, new)
     return free block.
```

Void*split-free-block (fp, nbytes) if (we can split fp) 2 for becomes used jupdate size make new free block add to bloch list 7 c (se 5 turn op into used bloch Keep Sie determine p

result p

free (P)

hp = p - (sire of (struct block hdr))
set used to o
set mume to empty string

hp=merge (hp, list_next(hp))
merge (list.prev(hp))hp)

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hear allocation

explicit allocation

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Consect	John Strk	(-4076)

aut, mette deallocation implicit deallocation garbage collection and

f = new Foo()

Note object

Set

Many

Garbese Collection

Reference country