

In this example, a heap with 1534 words is created, followed by

```
aaa = malloc(30)
bbb = malloc(4)
ccc = malloc(16)
ddd = malloc(6)
eee = malloc(3)
fff = malloc(4)
free(eee)
free(ddd)
free(ccc)
free(bbb)
free(fff)
free(aaa)
zzz = malloc(1)
yyy = malloc(4)
```



ails.

```
rabbit ~ $ CC bud
rabbit ~ $ a.out
```

level	max_data_size	memory_occupied_by_chunk
0	4	5
1	10	11
2	22	23
3	46	47
4	94	95
5	190	191
6	382	383
7	766	767
8	1534	1535

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Just type
name size to allocate memory
free address to free memory

0: 1534 words, FREE

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> aaa 30

requested allocation of 30 words for 'aaa'
will have to use a level 3 chunk of capacity 46 words
at level 8, checking chunk starting at 0
a free chunk that must be split
created new chunk at 1, size 766
created new chunk at 768, size 766
at level 7, checking chunk starting at 1
a free chunk that must be split
created new chunk at 2, size 382
created new chunk at 385, size 382
at level 6, checking chunk starting at 2
a free chunk that must be split
created new chunk at 3, size 190
created new chunk at 194, size 190
at level 5, checking chunk starting at 3
a free chunk that must be split
created new chunk at 4, size 94
created new chunk at 99, size 94
at level 4, checking chunk starting at 4
a free chunk that must be split
created new chunk at 5, size 46
created new chunk at 52, size 46
at level 3, checking chunk starting at 5
a free chunk of the right size
retagging chunk 4, split with availability 46

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```
retagging chunk 3, split with availability 94 46
retagging chunk 2, split with availability 190 94 46
retagging chunk 1, split with availability 382 190 94 46
retagging chunk 0, split with availability 766 382 190 94 46
successful
0: available sizes: 766 382 190 94 46
| 1: available sizes: 382 190 94 46
| | 2: available sizes: 190 94 46
| | | 3: available sizes: 94 46
| | | | 4: 46
| | | | SED by aaa
| | | | FREE
| | | | 9
| | | | 194:
| | 385: 382
| 768: 766 word
```

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> bbb 4

requested allocation of 4 words for 'bbb'

will have to use a level 0 chunk of capacity 4 words

at level 8, checking chunk starting at 0

a split chunk, availability: 766 382 190 94 46

at level 7, checking chunk starting at 1

a split chunk, availability: 382 190 94 46

at level 6, checking chunk starting at 2

a split chunk, availability: 190 94 46

at level 5, checking chunk starting at 3

a split chunk, availability: 94 46

at level 4, checking chunk starting at 4

a split chunk, availability: 46

at level 3, checking chunk starting at 52

a free chunk, availability: 22

created new chunk at 53, size 22

created new chunk at 54, size 22

at level 2, checking chunk starting at 53

a free chunk that must be split

created new chunk at 54, size 10

created new chunk at 65, size 10

at level 1, checking chunk starting at 54

a free chunk that must be split

created new chunk at 55, size 4

created new chunk at 60, size 4

at level 0, checking chunk starting at 55

a free chunk of the right size

retagging chunk 54, split with availability 4

retagging chunk 53, split with availability 10 4

retagging chunk 52, split with availability 22 10 4

retagging chunk 4 as split with availability 22 10 4

retagging chunk 3 as split with availability 94 22 10 4

retagging chunk 2 as split with availability 190 94 22 10 4

retagging chunk 1 as split with availability 382 190 94 22 10 4

retagging chunk 0 as split with availability 766 382 190 94 22 10 4

successful

0: available sizes: 766 382 190 94 22 10 4

| 1: available sizes: 382 190 94 22 10 4

| | 2: available sizes: 190 94 22 10 4

| | | 3: available sizes: 94 22 10 4

| | | | 4: available sizes: 22 10 4

| | | | | 5: 46 words, USED by aaa

| | | | | 52: available sizes: 22 10 4

| | | | | 53: available sizes: 10 4

| | | | | 54: available sizes: 4

| | | | | 55: 4 words, USED by bbb

| | | | | 60: 4 words, FREE

| | | | | 65: 10 words, FREE

| | | | | 76: 22 words, FREE

| | | | 99: 94 words, FREE

| | | 194: 190 words, FREE

| | 385: 382 words, FREE

| 768: 766 words, FREE

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> ccc 16

```
requested allocation of 16 words for 'ccc'
will have to use a level 2 chunk of capacity 22 words
at level 8, checking chunk starting at 0
  a split chunk, availability: 766 382 190 94 22 10 4
at level 7, checking chunk starting at 1
  a split chunk, availability: 382 190 94 22 10 4
at level 6, checking chunk starting at 2
  a split chunk, availability: 190 94 22 10 4
at level 5, checking chunk starting at 3
  a split chunk, availability: 94 22 10 4
at level 4, checking chunk starting at 4
  a split chunk, availability: 22 10 4
at level 3, checking chunk starting at 52
  a split chunk, availability: 22 10 4
at level 2, checking chunk starting at 76
  a free chunk, size 22
    retagging chunk 52 as split with availability 10 4
    retagging chunk 4 as split with availability 10 4
    retagging chunk 3 as split with availability 94 10 4
    retagging chunk 2 as split with availability 190 94 10 4
    retagging chunk 1 as split with availability 382 190 94 10 4
    retagging chunk 0 as split with availability 766 382 190 94 10 4
successful
0: available sizes: 766 382 190 94 10 4
| 1: available sizes: 382 190 94 10 4
| | 2: available sizes: 190 94 10 4
| | | 3: available sizes: 94 10 4
| | | | 4: available sizes: 10 4
| | | | | 5: 46 words, USED by aaa
| | | | | 52: available sizes: 10 4
| | | | | 53: available sizes: 10 4
| | | | | 54: available sizes: 4
| | | | | 55: 4 words, USED by bbb
| | | | | 60: 4 words, FREE
| | | | | 65: 10 words, FREE
| | | | | 76: 22 words, USED by ccc
| | | | | 99: 94 words, FREE
| | | 194: 382 words, FREE
| | 385: 382 words, FREE
| 768: 766 words, FREE
```

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> ddd 6

requested allocation of 6 words for 'ddd'

will have to use a level 1 chunk of capacity 10 words

at level 8, checking chunk starting at 0

a split chunk, availability: 766 382 190 94 4

at level 7, checking chunk starting at 1

a split chunk, availability: 382 190 94 10 4

at level 6, checking chunk starting at 2

a split chunk, availability: 190 94 10 4

at level 5, checking chunk starting at 3

a split chunk, availability: 94 10 4

at level 4, checking chunk starting at 4

a split chunk, availability: 10 4

at level 3, checking chunk starting at 52

a split chunk, availability: 10 4

at level 2, checking chunk starting at 53

a split chunk, availability: 10 4

at level 1, checking chunk starting at 65

a free chunk of the right size

retagging chunk 53 as split with availability 4

retagging chunk 52 as split with availability 4

retagging chunk 4 as split with availability 4

retagging chunk 3 as split with availability 94 4

retagging chunk 2 as split with availability 190 94 4

retagging chunk 1 as split with availability 382 190 94 4

retagging chunk 0 as split with availability 766 382 190 94 4

successful

0: available sizes: 766 382 190 94 4

| 1: available sizes: 382 190 94 4

| | 2: available sizes: 190 94 4

| | | 3: available sizes: 94 4

| | | | 4: available sizes: 4

| | | | | 5: 46 words, USED by aaa

| | | | | 52: available sizes: 4

| | | | | 53: available sizes: 4

| | | | | 54: available sizes: 4

| | | | | 55: 4 words, USED by bbb

| | | | | 60: 4 words, FREE

| | | | | 65: 10 words, USED by ddd

| | | | | 76: 22 words, USED by ccc

| | | | 99: 94 words, FREE

| | | 194: 190 words, FREE

| | 385: 382 words, FREE

| 768: 766 words, FREE

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> eee 3

```
requested allocation of 3 words for 'eee'
will have to use a level 0 chunk of capacity 4 words
at level 8, checking chunk starting at 0
  a split chunk, availability: 766 382 190 94 4
at level 7, checking chunk starting at 1
  a split chunk, availability: 382 190 94 4
at level 6, checking chunk starting at 2
  a split chunk, availability: 190 94 4
at level 5, checking chunk starting at 3
  a split chunk, availability: 94 4
at level 4, checking chunk starting at 4
  a split chunk, availability: 4
at level 3, checking chunk starting at 52
  a split chunk, availability: 4
at level 2, checking chunk starting at 53
  a split chunk, availability: 4
at level 1, checking chunk starting at 54
  a split chunk, availability: 4
at level 0, checking chunk starting at 60
  a free chunk of the right size
  retagging chunk 54 as split with availability none
  retagging chunk 53 as split with availability none
  retagging chunk 52 as split with availability none
  retagging chunk 4 as split with availability none
  retagging chunk 1 as split with availability 94
  retagging chunk 2 as split with availability 190 94
  retagging chunk 1 as split with availability 382 190 94
  retagging chunk 0 as split with availability 766 382 190 94
successful
0: available sizes: 766 382 190 94
| 1: available sizes: 382 190 94
| | 2: available sizes: 190 94
| | | 3: available sizes: 94
| | | | 4: available sizes: none
| | | | | 5: 46 words, USED by aaa
| | | | | 52: available sizes: none
| | | | | 53: available sizes: none
| | | | | 54: available sizes: none
| | | | | 55: 4 words, USED by bbb
| | | | | 60: 4 words, USED by eee
| | | | | 65: 10 words, USED by ddd
| | | | | 76: 22 words, USED by ccc
| | | | 99: 94 words, FREE
| | | 194: 190 words, FREE
| | 385: 382 words, FREE
| 768: 766 words, FREE
```

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> fff 4

```
requested allocation of 4 words for 'fff'
will have to use a level 0 chunk of capacity 4 words
  at level 8, checking chunk starting at 0
    a split chunk, availability: 766 382 190 94
  at level 7, checking chunk starting at 1
    a split chunk, availability: 382 190 94
  at level 6, checking chunk starting at 2
    a split chunk, availability: 190 94
  at level 5, checking chunk starting at 3
    a split chunk, availability: 94
  at level 4, checking chunk starting at 99
    a free chunk, availability: 46
      created new chunk at 101, size 22
      created new chunk at 124, size 22
  at level 3, checking chunk starting at 100
    a free chunk, availability: 46
      created new chunk at 102, size 10
      created new chunk at 113, size 10
  at level 1, checking chunk starting at 102
    a free chunk, availability: 46
      created new chunk at 103, size 4
      created new chunk at 108, size 4
  at level 0, checking chunk starting at 103
    a free chunk of the right size
      retagging chunk 102, split with availability 46 22 10 4
      retagging chunk 101, split with availability 190 46 22 10 4
      retagging chunk 100, split with availability 382 190 46 22 10 4
      retagging chunk 99, split with availability 766 382 190 46 22 10 4
      retagging chunk 3 as split with availability 46 22 10 4
      retagging chunk 2 as split with availability 190 46 22 10 4
      retagging chunk 1 as split with availability 382 190 46 22 10 4
      retagging chunk 0 as split with availability 766 382 190 46 22 10 4
```

successful

```
0: available sizes: 766 382 190 46 22 10 4
| 1: available sizes: 382 190 46 22 10 4
| | 2: available sizes: 190 46 22 10 4
| | | 3: available sizes: 46 22 10 4
| | | | 4: available sizes: none
| | | | | 5: 46 words, USED by aaa
| | | | | 52: available sizes: none
| | | | | 53: available sizes: none
| | | | | 54: available sizes: none
| | | | | 55: 4 words, USED by bbb
| | | | | 60: 4 words, USED by eee
| | | | | 65: 10 words, USED by ddd
| | | | | 76: 22 words, USED by ccc
| | | | | 99: available sizes: 46 22 10 4
| | | | | 100: available sizes: 22 10 4
| | | | | 101: available sizes: 10 4
| | | | | 102: available sizes: 4
| | | | | 103: 4 words, USED by fff
| | | | | 108: 4 words, FREE
| | | | | 113: 10 words, FREE
| | | | | 124: 22 words, FREE
| | | | | 147: 46 words, FREE
| | | | 194: 190 words, FREE
| | 385: 382 words, FREE
| 768: 766 words, FREE
```

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> free 60

```
requested deallocation of chunk 60
looking for chunk 60 in chunk 0, at level 8
  split chunk, left 1 to 767, right 768 to 1534
looking for chunk 60 in chunk 1, at level 7
  split chunk, left 2 to 384, right 385 to 767
looking for chunk 60 in chunk 2, at level 6
  split chunk, left 3 to 193, right 194 to 384
looking for chunk 60 in chunk 3, at level 5
  split chunk, left 4 to 99, right 100 to 193
looking for chunk 60 in chunk 4, at level 4
  split chunk, left 5 to 52, right 53 to 99
looking for chunk 60 in chunk 5, at level 3
  split chunk, left 6 to 26, right 27 to 52
looking for chunk 60 in chunk 6, at level 2
  split chunk, left 7 to 13, right 14 to 26
looking for chunk 60 in chunk 7, at level 1
  split chunk, left 8 to 6, right 7 to 13
looking for chunk 60 in chunk 8, at level 0
  found it, marking as free, size 4
  retagging chunk 51, split with availability 190 46 22 10 4
  retagging chunk 53, split with availability 4
  retagging chunk 52, split with availability 4
  retagging chunk 4, split with availability 4
  retagging chunk 3, split with availability 46 22 10 4
  retagging chunk 2, split with availability 190 46 22 10 4
  retagging chunk 1, split with availability 382 190 46 22 10 4
  retagging chunk 0, split with availability 766 382 190 46 22 10 4
successful
0: available sizes: 766 382 190 46 22 10 4
| 1: available sizes: 382 190 46 22 10 4
| | 2: available sizes: 190 46 22 10 4
| | | 3: available sizes: 46 22 10 4
| | | | 4: available sizes: 4
| | | | 5: 46 words, USED by aaa
| | | | 52: available sizes: 4
| | | | 53: available sizes: 4
| | | | 54: available sizes: 4
| | | | 55: 4 words, USED by bbb
| | | | 60: 4 words, FREE
| | | | 65: 10 words, USED by ddd
| | | | 76: 22 words, USED by ccc
| | | | 99: available sizes: 46 22 10 4
| | | | 100: available sizes: 22 10 4
| | | | 101: available sizes: 10 4
| | | | 102: available sizes: 4
| | | | 103: 4 words, USED by fff
| | | | 108: 4 words, FREE
| | | | 113: 10 words, FREE
| | | | 124: 22 words, FREE
| | | | 147: 46 words, FREE
| | | 194: 190 words, FREE
| | 385: 382 words, FREE
| 768: 766 words, FREE
```

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> free 65

```
requested deallocation of chunk 65
looking for chunk 65 in chunk 0, at level 8
  split chuck, left 1 to 767, right 768 to 1534
looking for chunk 65 in chunk 1, at level 7
  split chuck, left 2 to 384, right 385 to 767
looking for chunk 65 in chunk 2, at level 6
  split chuck, left 3 to 193, right 194 to 384
looking for chunk 65 in chunk 3, at level 5
  split chuck, left 4 to 99, right 100 to 193
looking for chunk 65 in chunk 4, at level 4
  split chuck, left 5 to 52, right 53 to 99
looking for chunk 65 in chunk 5, at level 3
  split chuck, left 6 to 26, right 27 to 52
looking for chunk 65 in chunk 6, at level 2
  split chuck, left 7 to 13, right 14 to 26
looking for chunk 65 in chunk 7, at level 1
  found it, marking as free, size 10
retagging chunk 53, split with availability 10 4
retagging chunk 52, split with availability 10 4
retagging chunk 4, split with availability 10 4
retagging chunk 3, split with availability 46 22 10 4
retagging chunk 2, split with availability 190 46 22 10 4
retagging chunk 1, split with availability 382 190 46 22 10 4
retagging chunk 0, split with availability 766 382 190 46 22 10 4
successful
0: available sizes: 766 382 190 46 22 10 4
| 1: available sizes: 382 190 46 22 10 4
| | 2: available sizes: 190 46 22 10 4
| | | 3: available sizes: 10 4
| | | | 4: available sizes: 10 4
| | | | | 5: 46 words, USED by aaa
| | | | | 52: available sizes: 10 4
| | | | | 53: available sizes: 10 4
| | | | | 54: available sizes: 4
| | | | | 55: 4 words, USED by bbb
| | | | | 60: 4 words, FREE
| | | | | 65: 10 words, FREE
| | | | | 76: 22 words, USED by ccc
| | | | | 99: available sizes: 46 22 10 4
| | | | | 100: available sizes: 22 10 4
| | | | | 101: available sizes: 10 4
| | | | | 102: available sizes: 4
| | | | | 103: 4 words, USED by fff
| | | | | 108: 4 words, FREE
| | | | | 113: 10 words, FREE
| | | | | 124: 22 words, FREE
| | | | | 147: 46 words, FREE
| | | | 194: 190 words, FREE
| | 385: 382 words, FREE
| 768: 766 words, FREE
```

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> free 76

```
requested deallocation of chunk 76
looking for chunk 76 in chunk 0, at level 8
  split chunk, left 1 to 767, right 768 to 1534
looking for chunk 76 in chunk 1, at level 7
  split chunk, left 2 to 384, right 385 to 767
looking for chunk 76 in chunk 2, at level 6
  split chunk, left 3 to 193, right 194 to 384
looking for chunk 76 in chunk 3, at level 5
  split chunk, left 4 to 99, right 100 to 193
looking for chunk 76 in chunk 4, at level 4
  split chunk, left 5 to 52, right 53 to 99
looking for chunk 76 in chunk 5, at level 3
  split chunk, left 6 to 22, right 23 to 52
looking for chunk 76 in chunk 6, at level 2
  found it, marking it as free
retagging chunk 0, split with availability 22 10 4
retagging chunk 4, split with availability 22 10 4
retagging chunk 3, split with availability 46 22 10 4
retagging chunk 2, split with availability 190 46 22 10 4
retagging chunk 1, split with availability 382 190 46 22 10 4
retagging chunk 0, split with availability 766 382 190 46 22 10 4
successful
0: available sizes: 766 382 190 46 22 10 4
| 1: available sizes: 382 190 46 22 10 4
| | 2: available sizes: 190 46 22 10 4
| | | 3: available sizes: 46 22 10 4
| | | | 4: available sizes: 22 10 4
| | | | | 5: 46 words, USED by aaa
| | | | | 12: available sizes: 22 10 4
| | | | | 53: available sizes: 10 4
| | | | | 54: available sizes: 4
| | | | | 55: 4 words, USED by bbb
| | | | | 60: 4 words, FREE
| | | | | 65: 10 words, FREE
| | | | | 76: 22 words, FREE
| | | | 99: available sizes: 46 22 10 4
| | | | 100: available sizes: 22 10 4
| | | | 101: available sizes: 10 4
| | | | 102: available sizes: 4
| | | | | 103: 4 words, USED by fff
| | | | | 108: 4 words, FREE
| | | | | 113: 10 words, FREE
| | | | | 124: 22 words, FREE
| | | | | 147: 46 words, FREE
| | | 194: 190 words, FREE
| | 385: 382 words, FREE
| 768: 766 words, FREE
```

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> free 55

```
requested deallocation of chunk 55
looking for chunk 55 in chunk 0, at level 8
  split chuck, left 1 to 767, right 768 to 1534
looking for chunk 55 in chunk 1, at level 7
  split chuck, left 2 to 384, right 385 to 767
looking for chunk 55 in chunk 2, at level 6
  split chuck, left 3 to 193, right 194 to 384
looking for chunk 55 in chunk 3, at level 5
  split chuck, left 4 to 99, right 100 to 193
looking for chunk 55 in chunk 4, at level 4
  split chuck, left 5 to 52, right 53 to 99
looking for chunk 55 in chunk 5, at level 3
  split chuck, left 6 to 26, right 27 to 52
looking for chunk 55 in chunk 6, at level 2
  split chuck, left 7 to 13, right 14 to 26
looking for chunk 55 in chunk 7, at level 1
  split chuck, left 8 to 6, right 7 to 13
looking for chunk 55 in chunk 8, at level 0
  found it, marking as free, size 4
  recombining 55 and 60 to make 54 free
  recombining 54 and 65 to make 53 free
  recombining 53 and 76 to make 52 free
  retagging chunk 4, split with availability 46
  retagging chunk 3, split with availability 46 22 10 4
  retagging chunk 2, split with availability 190 46 22 10 4
  retagging chunk 1, split with availability 382 190 46 22 10 4
  retagging chunk 0, split with availability 766 382 190 46 22 10 4
successful
0: available sizes: 766 382 190 46 22 10 4
| 1: available sizes: 382 190 46 22 10 4
| | 2: available sizes: 190 46 22 10 4
| | | 3: available sizes: 46 22 10 4
| | | | 4: available sizes: 46
| | | | 5: 46 words, USED by aaa
| | | | 52: 46 words, FREE
| | | | 99: available sizes: 46 22 10 4
| | | | 100: available sizes: 22 10 4
| | | | 101: available sizes: 10 4
| | | | 102: available sizes: 4
| | | | 103: 4 words, USED by fff
| | | | 108: 4 words, FREE
| | | | 113: 10 words, FREE
| | | | 124: 22 words, FREE
| | | | 147: 46 words, FREE
| | | 194: 190 words, FREE
| | 385: 382 words, FREE
| 768: 766 words, FREE
```

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> free 103

```
requested deallocation of chunk 103
looking for chunk 103 in chunk 0, at level 8
  split chuck, left 1 to 767, right 768 to 1534
looking for chunk 103 in chunk 1, at level 7
  split chuck, left 2 to 384, right 385 to 767
looking for chunk 103 in chunk 2, at level 6
  split chuck, left 3 to 193, right 194 to 384
looking for chunk 103 in chunk 3, at level 5
  split chuck, left 4 to 99, right 100 to 193
looking for chunk 103 in chunk 4, at level 4
  split chuck, left 5 to 51, right 52 to 99
looking for chunk 103 in chunk 5, at level 3
  split chuck, left 6 to 25, right 26 to 51
looking for chunk 103 in chunk 6, at level 2
  split chuck, left 7 to 12, right 13 to 25
looking for chunk 103 in chunk 7, at level 1
  split chuck, left 8 to 6, right 7 to 12
looking for chunk 103 in chunk 103, at level 0
  found it, marking as free, size 46
  recombining 103 and 108 to make 102 free
  recombining 102 and 113 to make 101 free
  recombining 101 and 124 to make 100 free
  recombining 100 and 147 to make 99 free
  retagging chunk 0, split with availability 94 46
  retagging chunk 2, split with availability 190 94 46
  retagging chunk 1, split with availability 382 190 94 46
  retagging chunk 0, split with availability 766 382 190 94 46
successful
0: available sizes: 766 382 190 94 46
| 1: available sizes: 382 190 94 46
| | 2: available sizes: 190 94 46
| | | 3: available sizes: 94 46
| | | | 4: available sizes: 46
| | | | | 5: 46 words, USED by aaa
| | | | | 52: 46 words, FREE
| | | | | 99: 94 words, FREE
| | | | | 194: 190 words, FREE
| | | | | 385: 382 words, FREE
| | | | | 768: 766 words, FREE
```

> free 5

```
requested deallocation of chunk 5
looking for chunk 5 in chunk 0, at level 8
  split chuck, left 1 to 767, right 768 to 1534
looking for chunk 5 in chunk 1, at level 7
  split chuck, left 2 to 384, right 385 to 767
looking for chunk 5 in chunk 2, at level 6
  split chuck, left 3 to 193, right 194 to 384
looking for chunk 5 in chunk 3, at level 5
  split chuck, left 4 to 98, right 99 to 193
looking for chunk 5 in chunk 4, at level 4
  split chuck, left 5 to 51, right 52 to 98
looking for chunk 5 in chunk 5, at level 3
  found it, marking as free, size 46
  recombining 5 and 52 to make 4 free
  recombining 4 and 99 to make 3 free
  recombining 3 and 194 to make 2 free
  recombining 2 and 385 to make 1 free
  recombining 1 and 768 to make 0 free
successful
0: 1534 words, FREE
```

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> zzz 1000

```
requested allocation of 1000 words for 'zzz'
  will have to use a level 8 chunk of capacity 1534 words
    at level 8, checking chunk starting at 0
      a free chunk of the right size
successful
0: 1534 words, USED by zzz
```

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> yyy 4

```
requested allocation of 4 words for 'yyy'
  will have to use a level 8 chunk of capacity 4 words
    at level 8, checking chunk starting at 0
      Impossible - this chunk is already used
failed
0: 1534 words, USED by zzz
```



> ^c

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QQ: 749389476

<https://tutorcs.com>