

Used for MyMalloc() case1-12,
free_space() case 2

~ Means there are more than 4 bytes here

-1 This really should be 9, putting -1 here
to avoid passing using slow_malloc().

_current_free_list

live_data() case 2

_current_free_list

my_free() case 5

before

_current_free_list

_my_free(p)

after

_current_free_list

consolidate() case 1-10

_current_free_list

_current_free_list

_current_free_list

_current_free_list

_current_free_list

_current_free_list

_current_free_list

_current_free_list

_current_free_list

_current_free_list

_current_free_list

Case1-3: Test my_malloc() when allocating an occupied entry right at
_current_free_list.

~ Means there are more than 4 bytes here

-1 This really should be 9, putting -1 here
to avoid passing using slow_malloc().

before

_current_free_list

My_malloc(4)

_current_free_list

My_malloc(8) or
My_malloc(12)

_current_free_list

Case4-6: Test my_malloc() when allocating an occupied entry at the next free entry after _current_free_list.

before

_current_free_list

My_malloc(16)

_current_free_list

My_malloc(20) or
My_malloc(24)

_current_free_list

Case7-9: Test my_malloc() when allocating an occupied entry at the second next free entry after _current_free_list.

before

_current_free_list

My_malloc(28)

_current_free_list

My_malloc(36) or
my_malloc(40)

_current_free_list

Case10-12: Test my_malloc() when allocating an occupied entry at the end of the free entry list.

before

_current_free_list

My_malloc(44)

_current_free_list

My_malloc(920)
or (924)

_current_free_list