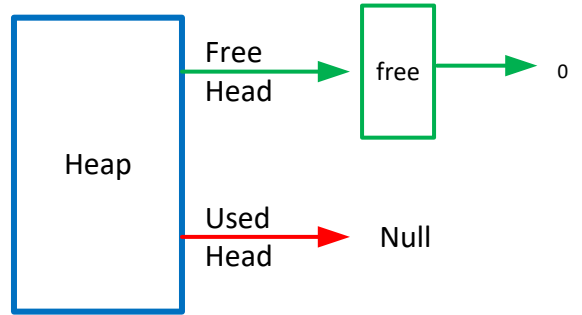
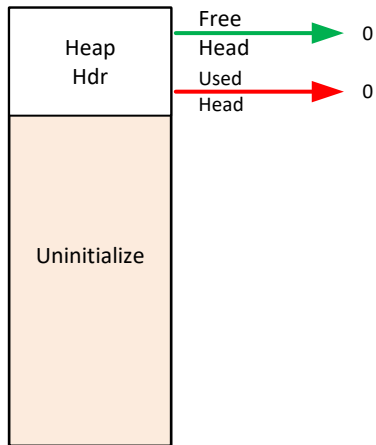


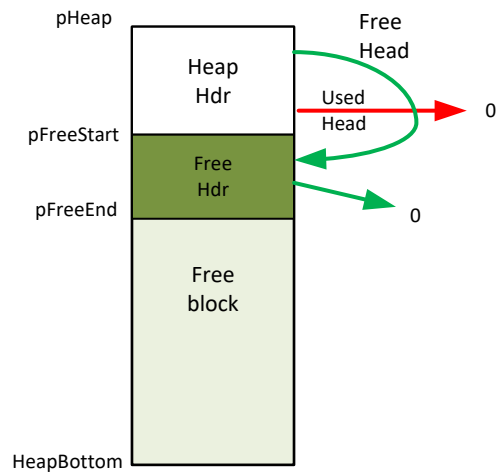
Initialize



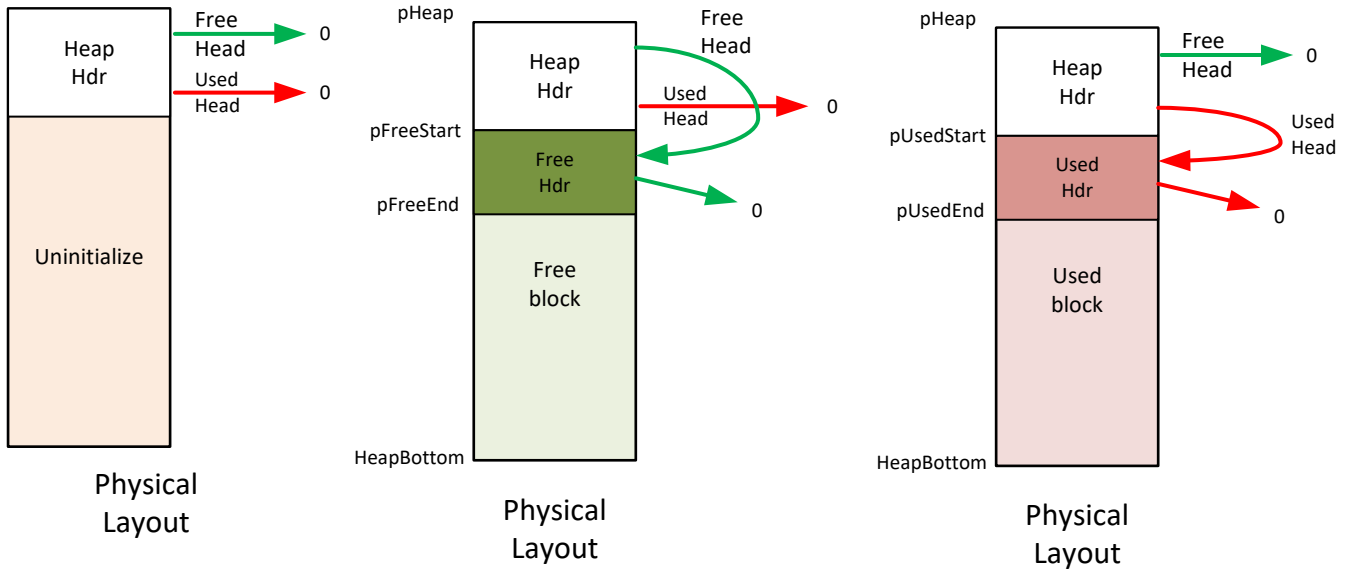
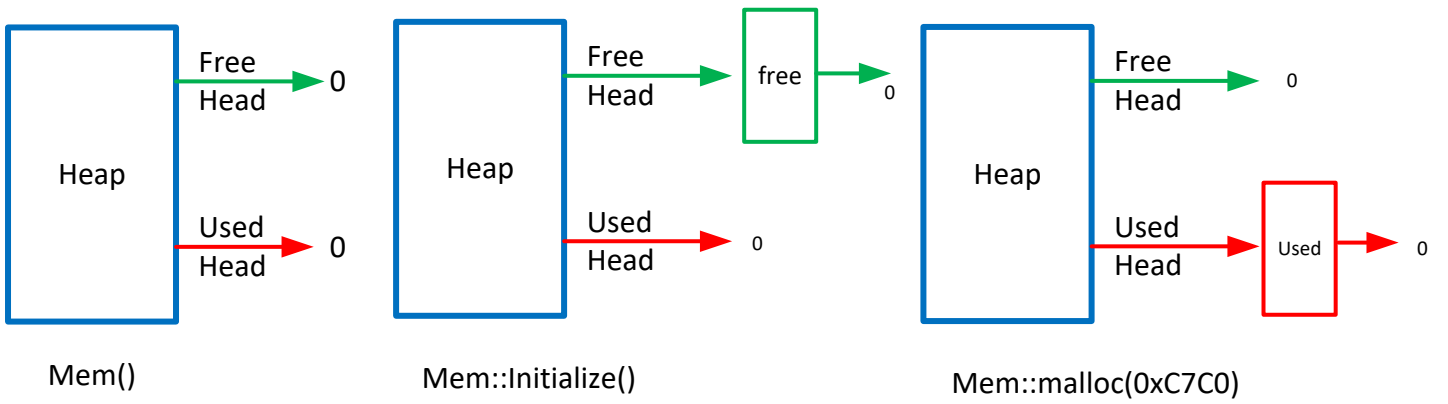
Test1

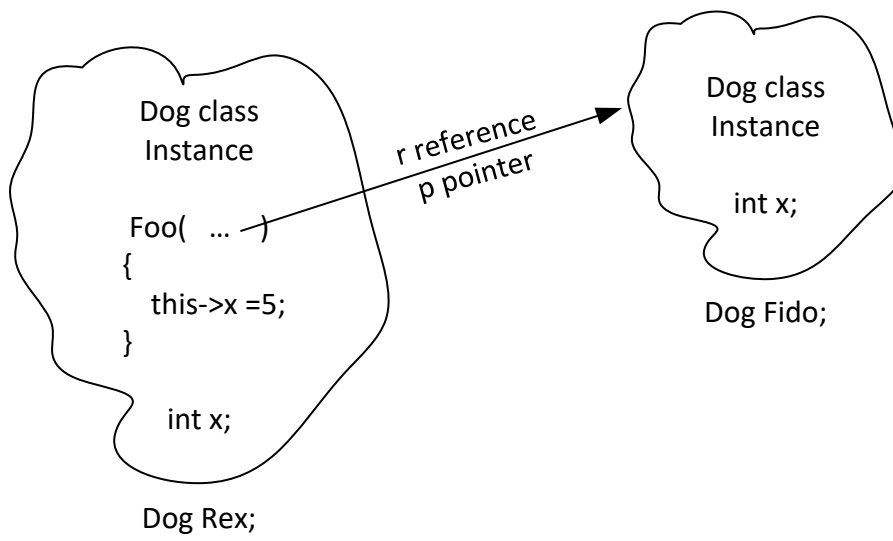


Physical Layout

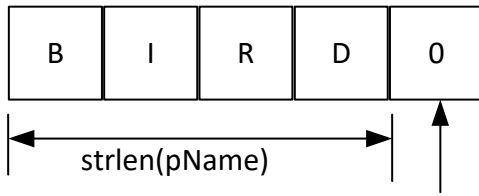


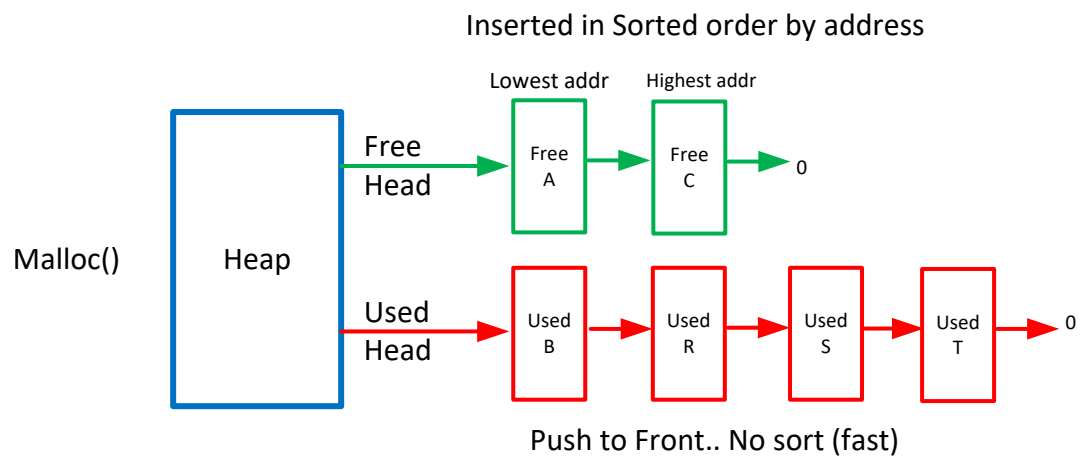
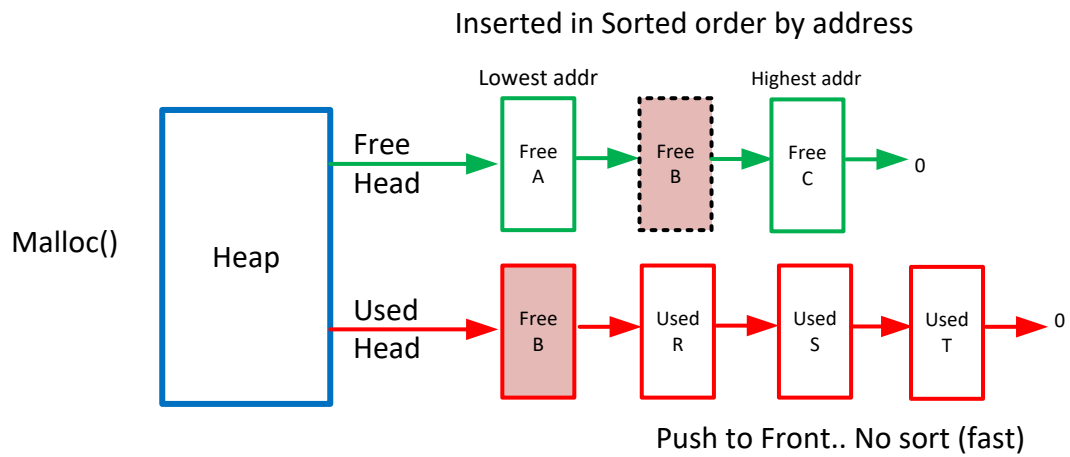
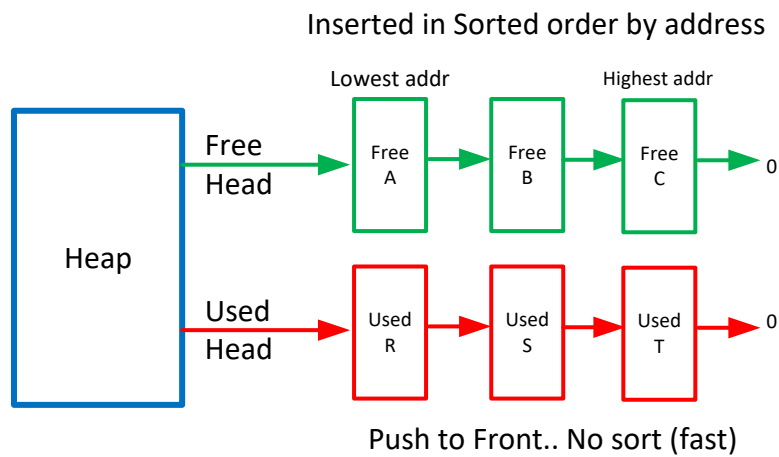
Physical Layout

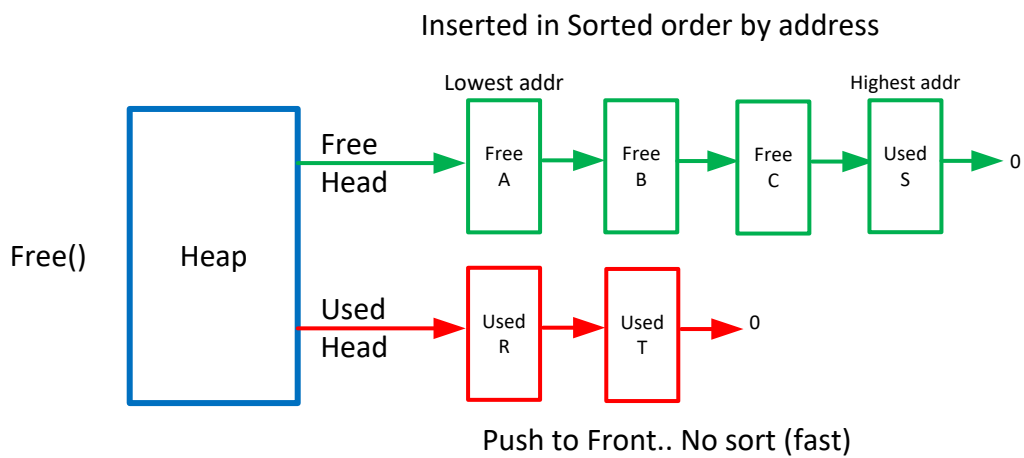
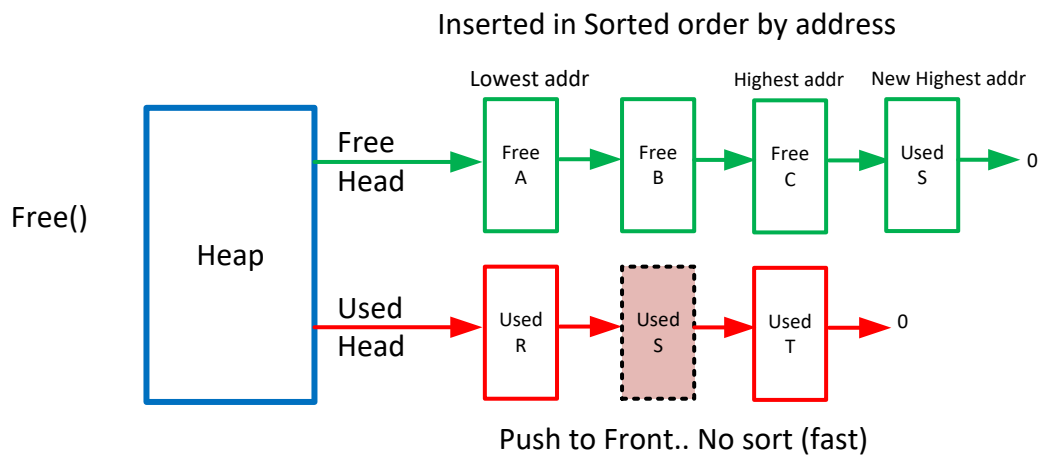
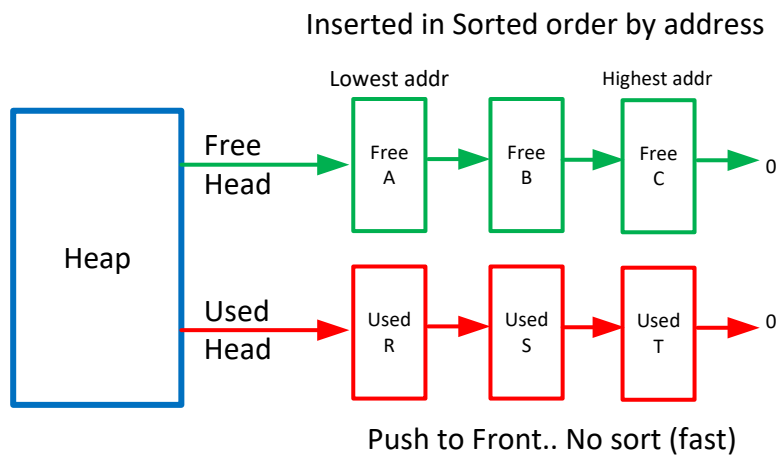


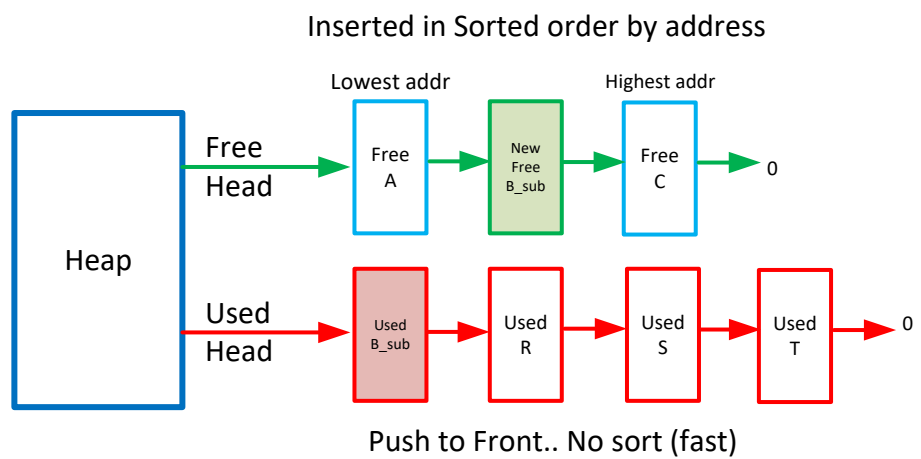
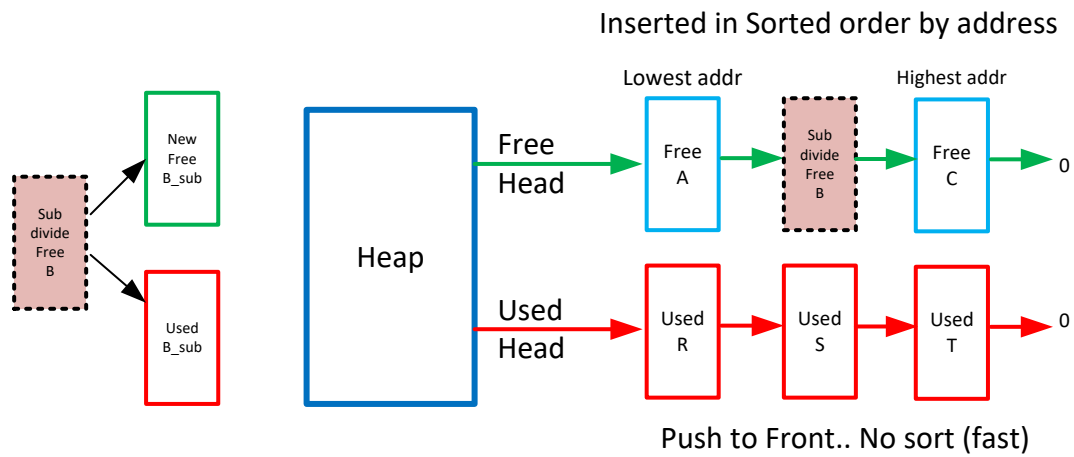
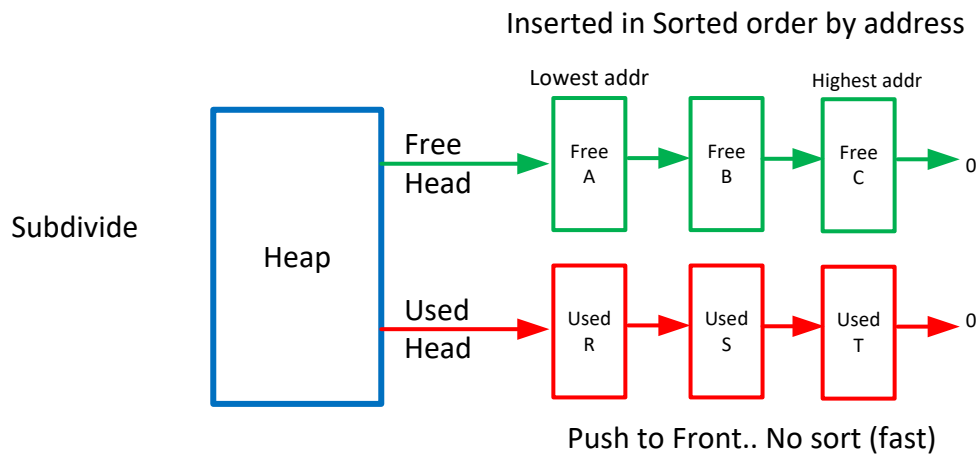


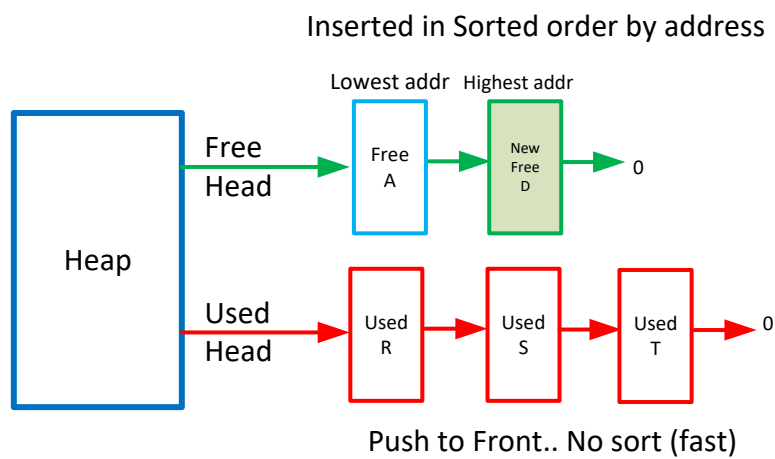
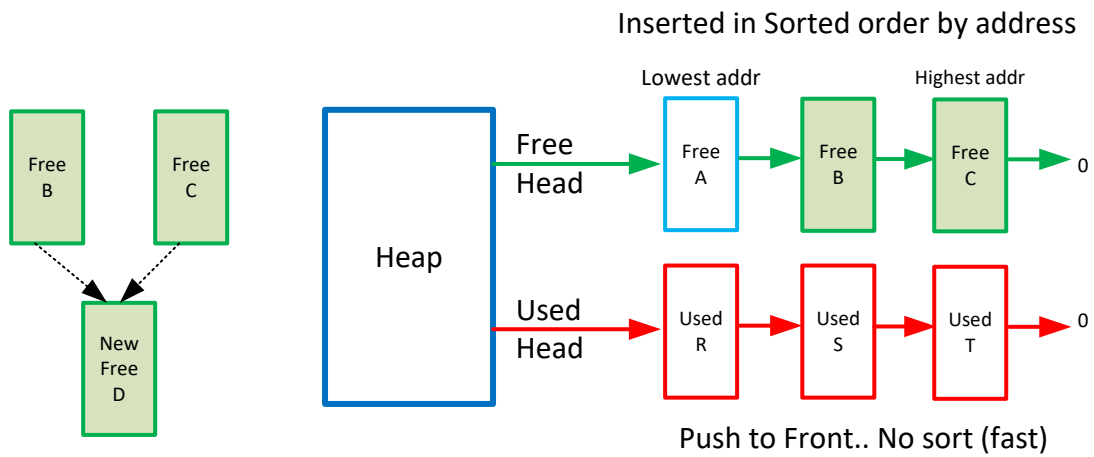
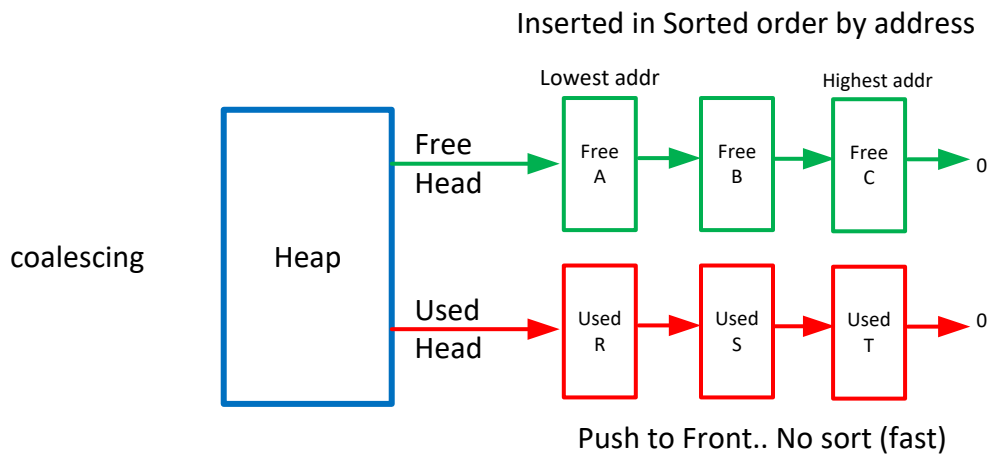
```
char pName[5];  
strcpy(pName, "bird");
```





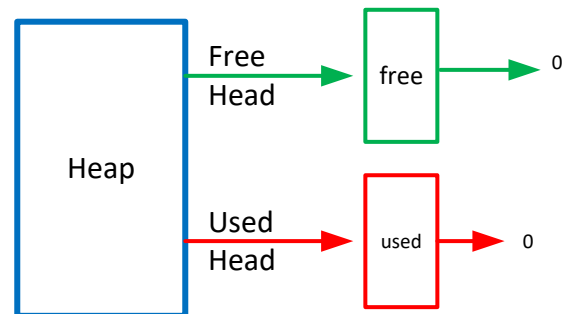
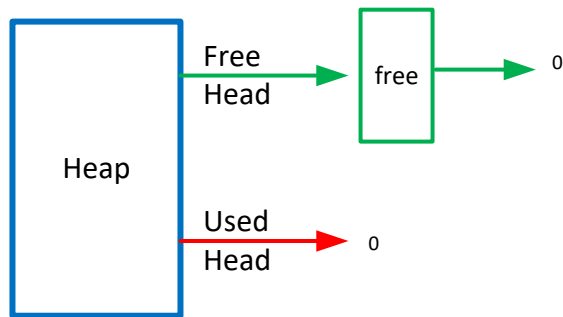
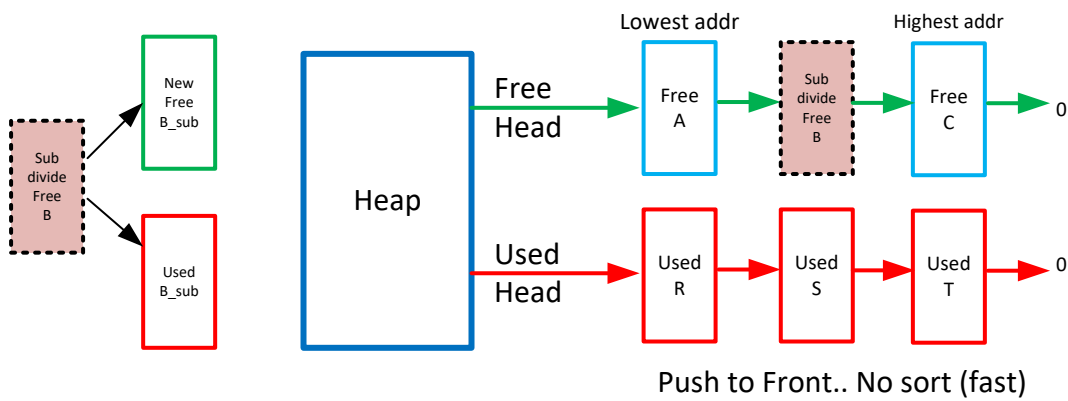




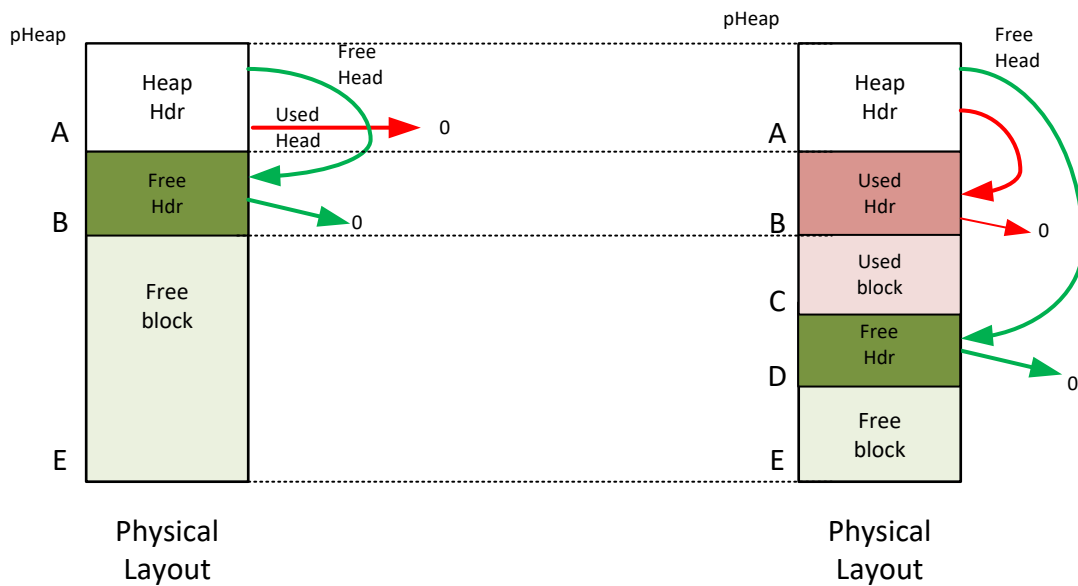


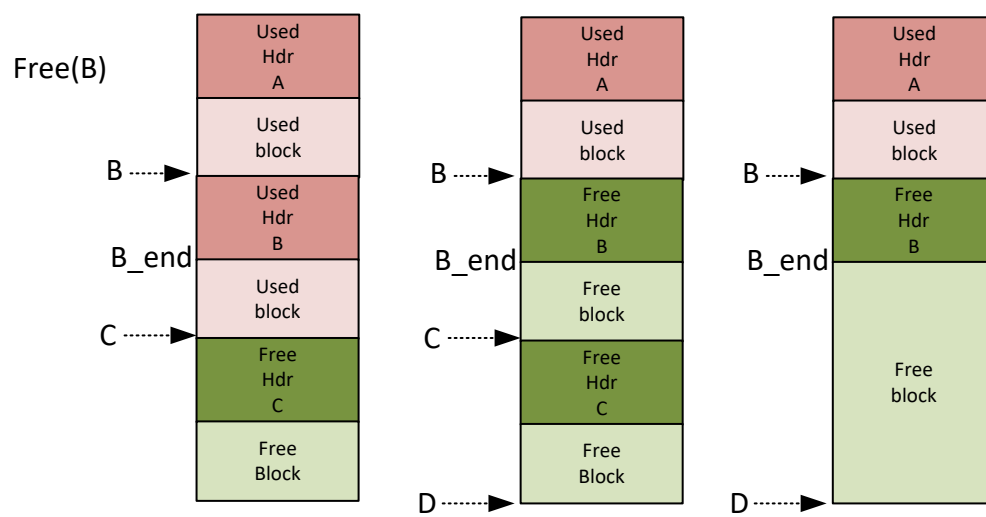


Inserted in Sorted order by address

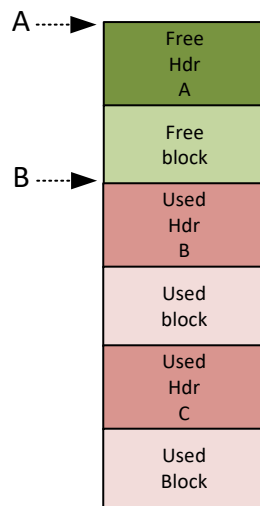


Mem::Initialize()

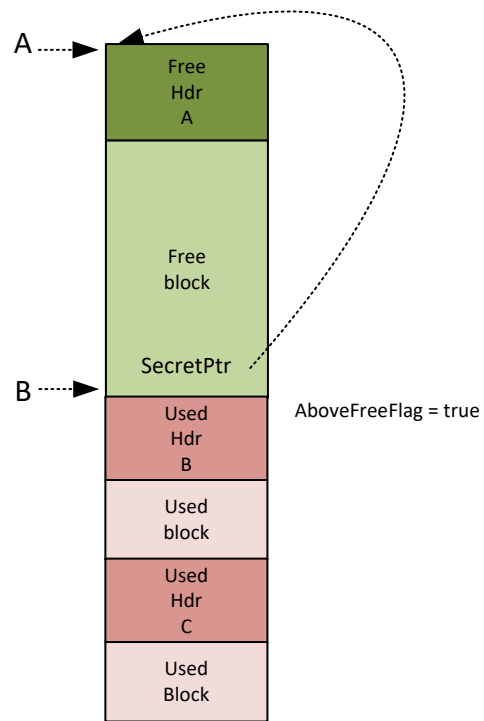


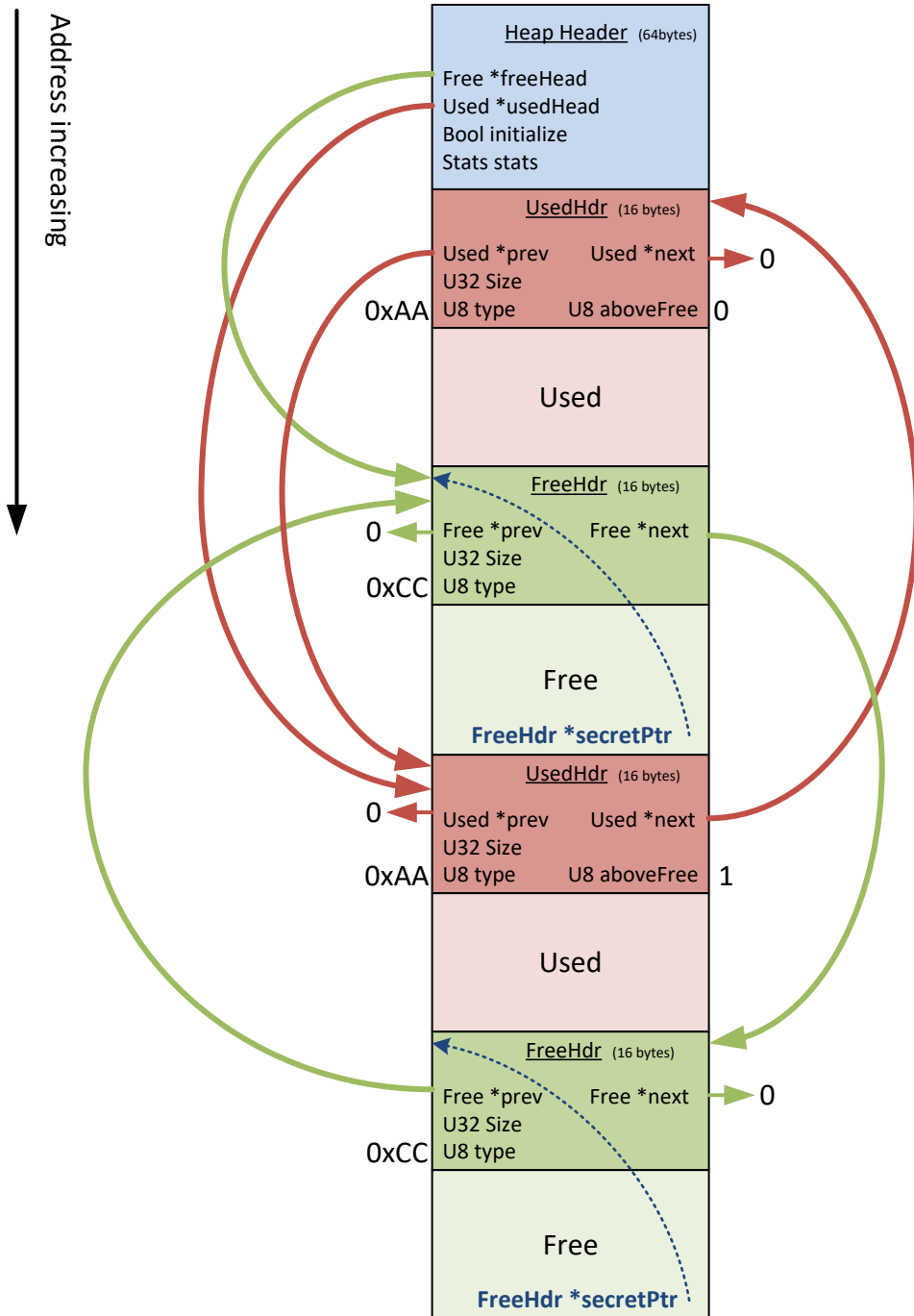


Free(B)



AboveFreeFlag = true





### Notes:

- \* Used blocks are unsorted, pushed to the head
- \* Free blocks are sorted smallest address at the front of list
- \* Used block size, Free block size does not include the header size
- \* Minimum allocation is multiple of 16 bytes
- \* Heap is aligned on creation, no need to align the heap after it has been initialized
- \* Two adjacent free blocks are coalesced into one large free block
- \* `secretPtr` is place at the bottom 32 bits of the free block, it points back to the freeHdr
- \* types – 0xAA used, 0xCC free