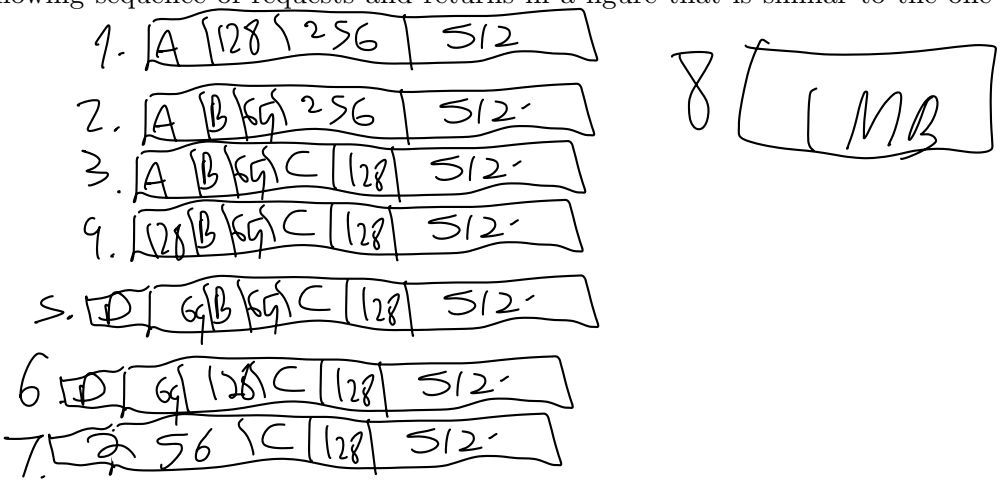
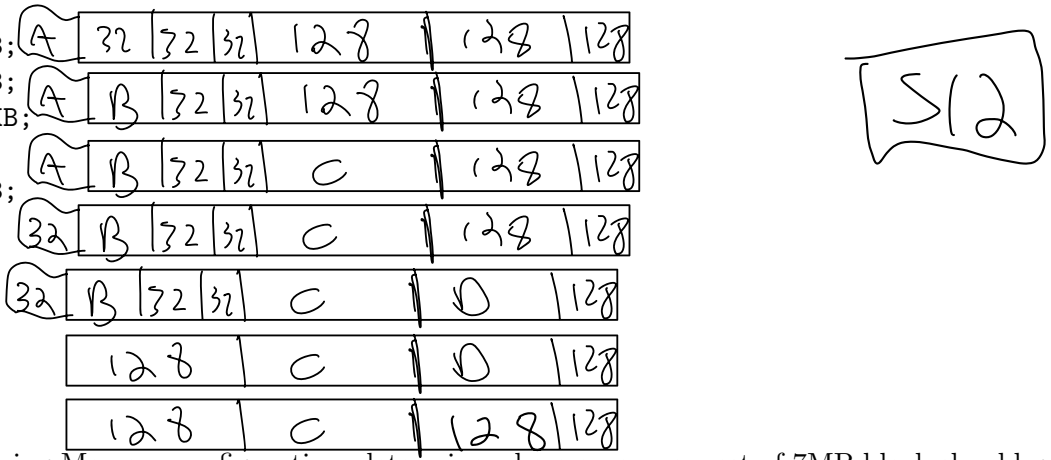
1. A 1MB block of memory is allocated using the buddy system which splits into **2 equal parts**. Show the results of the following sequence of requests and returns in a figure that is similar to the one shown in class:

```
Request A: 70KB;
Request B: 35KB;
Request C:80KB;
Return A;
Request D: 60KB;
Return B;
Return D;
Return C.
```

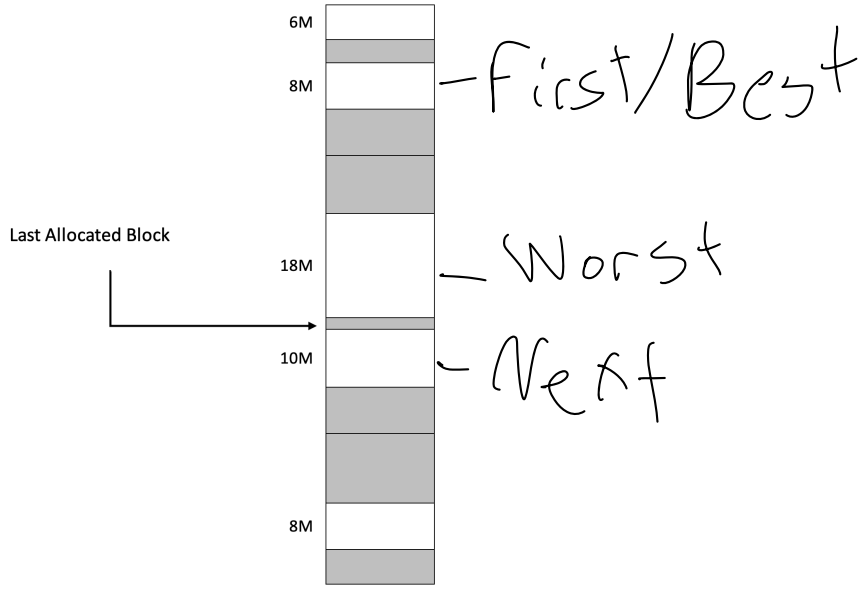


2. A 512 KB block of memory is allocated using the buddy system which splits into **4 equal parts**. Show the results of the following sequence of requests and returns in a figure that is similar to the one shown in class:

```
Request A: 30KB;
Request B: 23KB;
Request C: 100KB;
Return A;
Request D: 60KB;
Return B;
Return D;
Return C.
```



3. Given the following Memory configuration, determine where a new request of 7MB block should go for all the 4 placement algorithms - Next fit, First fit, Best fit, Worst Fit.



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