
Quiz 5 – Virtual Memory

Total
(10)

(L1): Student Name: _____

Q1) In Free space management, we discussed several methods including (a) splitting, (b) first fit, (c) worst fit, (d) best fit, (e) next fit, and (f) buddy allocation. Assume the following:

- Methods (b) to (f) all use splitting for memory allocation.
- The OS does not use one method but rather uses all the methods, from (b) to (f), in sequential order to allocate free space.
- The size of space needed each time is 15 KB.

Allocate 15 KB of space for the free list shown below, each time moving sequentially from method (b) to (f).

Free list → 20 KB → 10 KB → 15 KB → 15KB → 94 KB