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Operating System

Configuous Memory Allocation:

Practice Problems:

Problem - 01:

Consider six memory partitions of size 200KB, 400KB, 600KB, 500 KB, 300 KB and 250 KB. These partitions need to be allocated to four processors of sizes 357 KB, 210 KB, 468 KB and 491KB in that order.

perform the allocation of processors using.

1. first fit Algorithm
2- Best fit Algorithm
3- worst fit Algorithm

solution:

given processes are

Process P1 : 357 kB

Process P2 = 210 KB

Process P3 = 468 KB

Process P4= 491 KB

| Allocation | using | first fit A | Igorithm: | | | |
|---------------------------------------|--------------|-------------------------|---------------------|---------|----------------------|-----------------|
| Main [Memory | | PI | P2 | P3 | | |
| + | | | | | | < 350 KB→ |
| Process This is be to the si | cause | the a no paul Process F | itim of | Size 9 | veater 1 | or equal |
| Allocation using Best fit Algorithm: | | | | | | |
| Main Memory | | PI | P4 | P3 | | P2 |
| | -200 → KB | ← 400 → kB | ← 600 → kB | | < 300 → KB | — 350 → KB |
| Allocation using worst fit Algorithm. | | | | | | |
| Main Memory | | | PI | P2 | | |
| | | | | | | - 350 -> ICB |
| 11/2/2 12 | of comise | no paul | ition of | S170 0 | to memory | in or equal |
| Problem - | = 2: | | ana | Py is a | wailable_ | |
| consider H | ne follow | wing heap d hatch | (figure) ed regi | in whi | ch blank e in use | regions are |

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