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 Öğrenci No :
 Ders Kodu : 480000000001357
 Ders Adı : İŞLETİM SİSTEMLERİ
 Sınav Türü : Kısa Sınav
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Answers.

 Ara Sınav Final

Q1) Boş bellek bölmeleri alttaki sırayla veriliyor:

50pt 120 K, 450 K, 300 K, 600 K

Eski-SİT-Algoritması :

if Memory-Request \leq 100 K

use FIRST-FIT

else

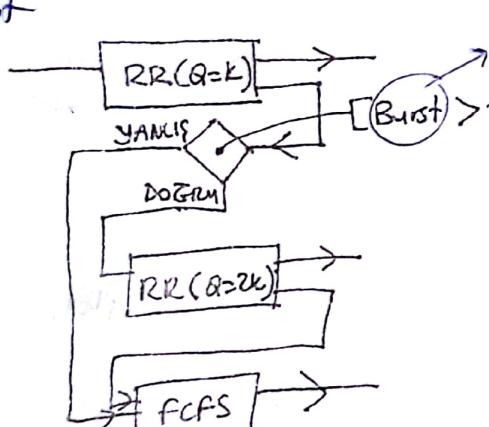
use MY-HALF-FIT

Process	Mem-request
P1	190 K
P2	240 K
P3	360 K
P4	180 K
P5	120 K

MY-HALF-FIT, her seferinde process'in yarısını bellek'e kaydırır. Diğer yarısını process listesinin sonuna ekler. Bu işlem yaparken WORST-FIT veya BEST-FIT kullanılabilmektedir. Hangisinin kullanılsa daha verimli olur?

Q2) Multi-Level Feedback (gök direğe geri beslenen) kuyruk:

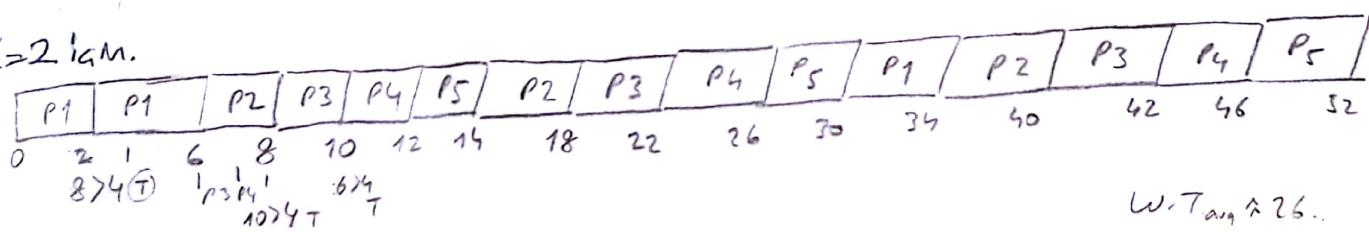
50pt



Process	Burst	(Arrival gel. ts.)
P1	10	0
P2	12	3
P3	8	6
P4	10	7
P5	12	10

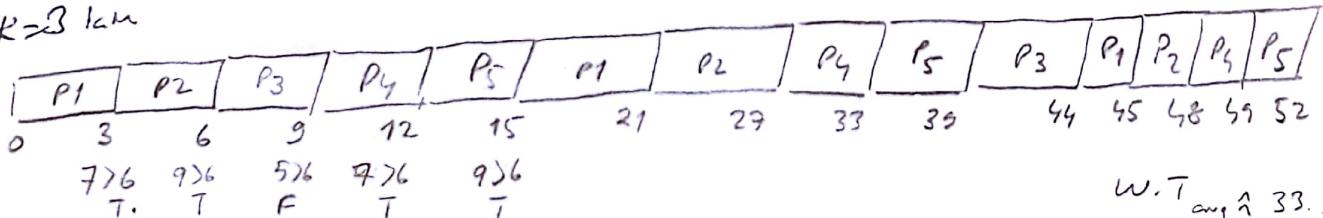
Hangi $K=2$ deposu daha verimli olur?

$K=2$ ligm.



W.T avg ≈ 26 .

$K=3$ ligm.



W.T avg ≈ 33 .

Q1) WORST-FIT

- $P_1 \rightarrow 190 \leq 100k, F, M_1(25k), P_6: 95k$
 $P_2 \rightarrow 240 \leq 100k, F, M_4(280k), P_7: 120k$
 $P_3 \rightarrow 360 \leq 100k, F, M_2(175k), P_8: 180k$
 $P_4 \rightarrow 180 \leq 100k, F, M_3(210k), P_9: 90k$
 $P_5 \rightarrow 120 \leq 100k, F, M_4(220k), P_{10}: 60k$
 $P_6 \rightarrow 95 \leq 100k, T, M_1(25k)$
 $P_7 \rightarrow 120k \leq 100k, F, M_4(160k), P_{11}: 60k$
 $P_8 \rightarrow 180k \leq 100k, F, M_3(120k), P_{12}: 90k$
 $P_9 \rightarrow 90k \leq 100k, T, M_2(85k)$
 $P_{10} \rightarrow 60k \leq 100k, T, M_2(25k)$
 $P_{11} \rightarrow 60k \leq 100k, T, M_3(60k)$
 $P_{12} \rightarrow 90k \leq 100k, T, M_4(70k)$

$$\begin{array}{r}
 M_1 25 \\
 M_2 25 \\
 M_3 60 \\
 M_4 70 \\
 \hline
 180k.
 \end{array}$$

BEST-FIT

- $P_1 \rightarrow 190 \leq 100k, F, M_1(25k), P_6: 95k$
 $P_2 \rightarrow 240 \quad F, M_3(180k), P_7: 120k$
 $P_3 \rightarrow 360 \quad F, M_3(90k), P_8: 180k$
 $P_4 \rightarrow 180 \quad F, M_4(310k), P_9: 90k$
 $P_5 \rightarrow 120 \quad F, M_4(250k), P_{10}: 60k$
 $P_6 \rightarrow 95 \quad T, M_2(355k)$
 $P_7 \rightarrow 120 \quad F, M_4(190k), P_{11}: 60k$
 $P_8 \rightarrow 180 \quad F, M_4(100k), P_{12}: 90k$
 $P_9 \rightarrow 90 \quad T, M_2(265k)$
 $P_{10} \rightarrow 60 \quad T, M_2(205k)$
 $P_{11} \rightarrow 60 \quad T, M_2(145k)$
 $P_{12} \rightarrow 90k \quad T, M_2(55k)$

$$\begin{array}{r}
 M_1 25 \\
 M_2 55 \\
 M_3 0 \\
 M_4 100 \\
 \hline
 180k.
 \end{array}$$

Her misinde de tijm processler verloopt ok ✓
süre de ayni parked noz.