

CamScanner ile tarandı

3. (%10) Consider the following set of processes with arrival times and CPU execution times given in milliseconds.. (Aşağıdaki geliş zamanı (arrival) ve çalışma süresi (lengih) verilen prosesler için a) kesilen ilk gelen öncelikli. b) kesilmeyen SRJF..)

Process	Arrival	Length
P_{λ}	0	3
P_{2}	3.	6
P_{α}	2	2
Pa	6	3
P ₅	10	1

Draw and label Gantt charts illustrating the execution of these processes using

- a) immediately preemptive FCFS
 b) preemptive SRJF scheduling

4. (15%) Consider the following proposed solution to the Bounded Buffer producer/consumer problem a) Is there a problem with this solution? Why?
b) What effect would reversing the order of the Poperations in lines 3 and 4 for the consumer had been solution.

(Tr: Sınırlı tampon problem için önerilen kodda semaforlar full = 0, empty = n, and mutex = 1 olar atanmıştır. a) Bu çözüm yeterlimidir? Neden? b) Satır 3 ve 4 deki P operasyonlarının yerleri değiştiril olur? Açıklayınız.)

Producer Process

```
// produce an item in nextp
     P(empty);
     P(mutex);
// copy from nextp to buffer
    V(mutex);
```

) while(1);

Consumer Process

```
Line
dof
                                         Lin
                                         Line
    P(full);
                                         Line
     P(mutex):
// copy an item from buffer to nexte
                                           1
                                          Li
     V(mutex);
// consume the item in nextc
} while(1);
```



ANKARA UNIVERSITY - DEPAREMENT OF COMPUTER ENGINEERING

COM 334/BLM 334 Operating Systems/Isletim Sistemberi - Final Examination/ Final Same

I June 2015 - Duration 90 minutes (Silve 90 (b)

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(a) Describe Belady's anomaly in page replacement. (If Bloody anomalist needed Againstone)

(b) Segmentation serves a different purpose than paging. Describe the difference (Segmentanyon say fallamadan fackli amaginar hizmet oder Farki agakinyms.

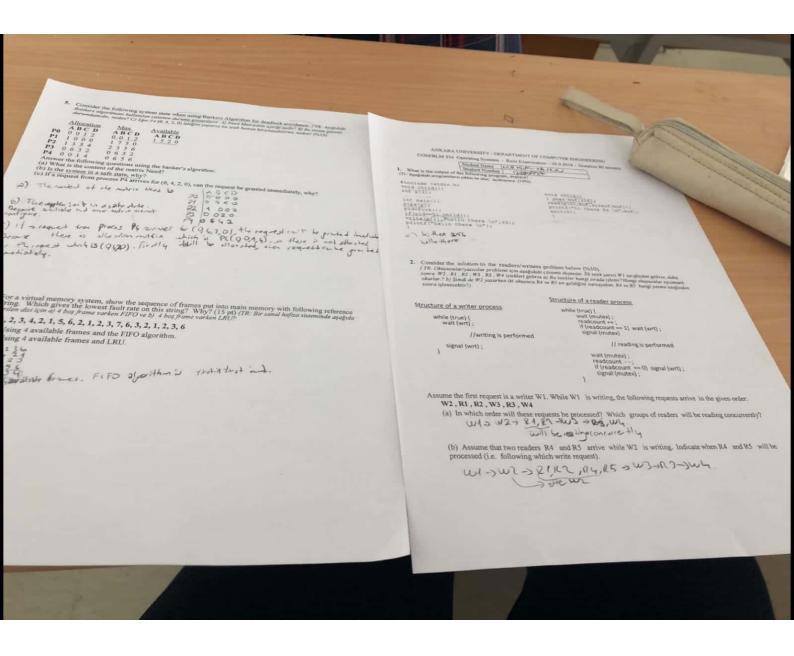
2. (%10) Draw a graph showing the child/parent relationship of processes created by the following code ragment. (Aşağıda verilen kod ile yaratılan processler arasındaki ata/çoçuk ilişkisini gösteren bir graf çiz

pid = fork();

if (pid != 0) fork();

fork();

ANKARA UNIVERSITY - DEPARTMENT OF COMPUTER ENGINEERING COM 334/BLM 334 Operating Systems/Işletim Sistemleri - Final Examination/Final Smays 1 June 2015 - Duration 90 minutes (Sure 90 dk) Student Name 1. Short Answers (%10) Student Number (a) Describe Belady's anomaly in page replacement (Tr. Belady anomalist nedir? Açıklayınız?) (b) Segmentation serves a different purpose than paging Describe the difference (Segmentasyon sayfalamadan farklı amaçlara hizmet eder. Farkı açıklayınız. Willman ballow orbitation white of the manufacture of the person of agreement of the person of the state of t And programed between larker per proceeding, local so global day will replay not capted for after the sognature we would state the soles we had a soles hade alayable non supplies may be the cuttine shedled after ander and some dand fine and after a sound to help the sound is a four proposed to a sound to all the temps and the sound to a sound to all the temps and the sound to a 2. (%10) Draw a graph showing the child/parent relationship of processes created by the following code fragment. (Aşağıda verilen kod ile yaratılan processler arasındakı ata/çoçuk ilişkisini gösteren bir graf çiz pid = fork(); if (pid != 0)



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