SYS & NET I - 0498 COP4634 201308

Quiz Submissions - Homework 3

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Attempt 1

Written: Nov 2, 2013 6:27 PM - Nov 2, 2013 6:47 PM

Submission View

released: Nov 4, 2013 4:00 PM

Question 1 **1 / 1 point**

What is the physical addresses for the logical address 1000?

Answer: 2300 ✓

Question 2 **1 / 1 point**

What is the physical addresses for the logical address 110?

Answer: 429 ✓

Question 3 **1 / 1 point**

What is the physical addresses for the logical address 2500?

Answer: 590 ✓

Question 4 **1 / 1 point**

What is the physical addresses for the logical address 3400?

Answer: SF ✓

Question 5 **1 / 1 point**

What is the physical addresses for the logical address 7112?

Answer: SF ✓

Question 6 **1 / 1 point**

Compute the total unused space using the **first-fit** strategy after the OS attempts to load the four processes P1, P2, P3, P4 int

P1 (size = 50 KB),
P2 (size = 220 KB),
P3 (size = 415 KB),
P4 (size = 300 KB).

Assume that the first memory parition that is free is 200KB and that the last memory partition that is free is 80KB.

Enter information in KB for the total memory left free:

595 ✓ Next, list the memory holes left in the order as generated. For example, if after placing several processes in memory you are left with memory holes 30, 20, 80, 100 (in KB) then enter those values below in KB. Don't include KB, only the numbers. 150 ✓ 180 ✓ 185 ✓ 80 ✓

Question 7 **1 / 1 point**

Compute the total unused space using the **best-fit** strategy after the OS attempts to load the four processes P1, P2, P3, P4 into

P1 (size = 50 KB),
P2 (size = 220 KB),
P3 (size = 415 KB),
P4 (size = 300 KB).

Assume that the first memory parition that is free is 200KB and that the last memory partition that is free is 80KB.

Enter information in KB for the total memory left free:

595 ✓ Next, list the memory holes left in the order as generated. For example, if after placing several processes in memory you are left with memory holes 30, 20, 80, 100 (in KB) then enter those values below in KB. Don't include KB, only the numbers. 200 ✓ 180 ✓ 185 ✓ 30 ✓

Question 8 **0.4 / 1 point**

Compute the total unused space using the **worst-fit** strategy after the OS attempts to load the four processes P1, P2, P3, P4 int

P1 (size = 50 KB),
P2 (size = 220 KB),
P3 (size = 415 KB),
P4 (size = 300 KB).

Assume that the first memory parition that is free is 200KB and that the last memory partition that is free is 80KB.

Enter information in KB for the total memory left free:

595 ✗ **(710)** Next, list the memory holes left in the order as generated. For example, if after placing several processes in memory you are left with memory holes 30, 20, 80, 100 (in KB) then enter those values below in KB. Don't include KB, only the numbers. 200 ✓ 180 ✗ **(100)** 135 ✗ **(330)** 80 ✓

Question 9 **2 / 2 points**

Given the memory allocation and free space distribution as described in Problem 2, which algorithm (strategy) utilizes memory best? Remember, the goal for the OS is to manage memory in such a way that all programs that need to run can be run.

- ✓ ☐ Worst-Fit Strategy
- ✓ ☐ Best-Fit Strategy
- ✓ ☐ First-Fit Strategy
- ✓ ☑ Neither of the tested methods.

Attempt Score: 9.4 / 10

Overall Grade (highest attempt)**:** 9.4 / 10

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