COSC 3346

Practice Questions on Chapter 8

1. Given six memory partitions of 300 KB, 500 KB, 400 KB, 200 KB, 700 KB, and 125 KB (in order), how would the first fit and best fit algorithms place processes of size 210 KB, 450 KB, 500 KB, 200 KB, and 500 KB (in order)?

**FIRST FIT:** **BEST FIT:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Partition Size |  |  | Partition Size |  |
| 300 KB | 210KB |  | 300 KB | 210KB |
| 500 KB | 450KB |  | 500 KB | 450KB |
| 400 KB | 200KB |  | 400 KB |  |
| 200 KB |  |  | 200 KB | 200KB |
| 700 KB | 500KB |  | 700 KB | 500KB |
| 125 KB |  |  | 125 KB |  |

2. Consider the following segment table:

|  |  |  |
| --- | --- | --- |
| **Segment** | **Base** | **Length** |
| 0  1  2  3 | 209  2204  903  1325 | 501  14  102  380 |

What are the physical addresses for the following logical addresses (if valid)?

1. 0, 852
   1. NOT VALID
2. 1, 8
   1. 2212
3. 2, 92
   1. 995
4. 3, 45
   1. 1370