**7.3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Process** | **Allocated (Release)** | **Max** | **Need (A)** |
| P0 | 0 0 1 2 | 0 0 1 2 | 0 0 0 0 |
| P1 | 1 0 0 0 | 1 7 5 0 | 0 7 5 0 |
| P2 | 1 3 5 4 | 2 3 5 6 | 1 0 0 2 |
| P3 | 0 6 3 2 | 0 6 5 2 | 0 0 2 0 |
| P4 | 0 0 1 4 | 0 6 5 6 | 0 6 4 2 |

B)

**Available:** (1 5 2 0)

1 5 2 0 + 0 0 1 2 (P0) = 1 5 3 2

1 5 3 2 + 1 3 5 4 (P2) = 2 8 8 6

2 8 8 6 + 0 6 3 2 (P3) = 2 14 11 8

2 14 11 8 + 0 0 1 4 (P4) = 2 14 12 12

2 14 12 12 + 1 3 5 4 (P2) = 3 17 17 16

C) YES