Banker's Algorithm Simulator

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bankers_tab.tsv 257.0B

Valid File Format

Step 0:

	Process	Allocation	Need	Finish
0	P0	0 1 0	7 4 3	☐
1	P1	2 0 0	1 2 2	☐
2	P2	3 0 2	6 0 0	☐
3	P3	2 1 1	0 1 1	☐
4	P4	0 0 2	4 3 1	☐

Available (Work): [3, 3, 2]

Step 1:

	Process	Allocation	Need	Finish
0	P0	0 1 0	7 4 3	☐
1	P1	2 0 0	1 2 2	☑
2	P2	3 0 2	6 0 0	☐
3	P3	2 1 1	0 1 1	☐
4	P4	0 0 2	4 3 1	☐

Available (Work): [5, 3, 2]

Step 2:

	Process	Allocation	Need	Finish
0	P0	0 1 0	7 4 3	☐
1	P1	2 0 0	1 2 2	☑
2	P2	3 0 2	6 0 0	☐
3	P3	2 1 1	0 1 1	☑
4	P4	0 0 2	4 3 1	☐

Available (Work): [7, 4, 3]

Step 3:

	Process	Allocation	Need	Finish
0	P0	0 1 0	7 4 3	☑
1	P1	2 0 0	1 2 2	☑
2	P2	3 0 2	6 0 0	☐
3	P3	2 1 1	0 1 1	☑
4	P4	0 0 2	4 3 1	☐

Available (Work): [7, 5, 3]

Step 4:

	Process	Allocation	Need	Finish
0	P0	0 1 0	7 4 3	☑
1	P1	2 0 0	1 2 2	☑
2	P2	3 0 2	6 0 0	☑
3	P3	2 1 1	0 1 1	☑
4	P4	0 0 2	4 3 1	☐

Available (Work): [10, 5, 5]

Step 5:

	Process	Allocation	Need	Finish
0	P0	0 1 0	7 4 3	✓
1	P1	2 0 0	1 2 2	✓
2	P2	3 0 2	6 0 0	✓
3	P3	2 1 1	0 1 1	✓
4	P4	0 0 2	4 3 1	✓

Available (Work): [10, 5, 7]

System is in a safe state. Safe sequence: ['P1', 'P3', 'P0', 'P2', 'P4']

All Possible Safe Sequences:

1: ['P1', 'P3', 'P0', 'P2', 'P4']

2: ['P1', 'P3', 'P0', 'P4', 'P2']

3: ['P1', 'P3', 'P2', 'P0', 'P4']

4: ['P1', 'P3', 'P2', 'P4', 'P0']

5: ['P1', 'P3', 'P4', 'P0', 'P2']

6: ['P1', 'P3', 'P4', 'P2', 'P0']

7: ['P1', 'P4', 'P3', 'P0', 'P2']

8: ['P1', 'P4', 'P3', 'P2', 'P0']

9: ['P3', 'P1', 'P0', 'P2', 'P4']

10: ['P3', 'P1', 'P0', 'P4', 'P2']

11: ['P3', 'P1', 'P2', 'P0', 'P4']

12: ['P3', 'P1', 'P2', 'P4', 'P0']

13: ['P3', 'P1', 'P4', 'P0', 'P2']

14: ['P3', 'P1', 'P4', 'P2', 'P0']

15: ['P3', 'P4', 'P1', 'P0', 'P2']

16: ['P3', 'P4', 'P1', 'P2', 'P0']