Activity 4

Consider the following snapshot of a system:

	Allocation Matrix	Max
	ABCD	ABCD
T ₀	0120	2 4 3 1
T ₁	0112	2424
T ₂	1240	3651
T ₃	3120	1262
T ₄	1001	3112

Using the banker's algorithm, determine whether or not each of the following states is unsafe. If the state is safe, illustrate the order in which the threads may complete. Otherwise, illustrate why the state is unsafe.

- a. Available = (2, 2, 2, 3)
- b. Available = (4, 4, 1, 1)
- c. Available = (3, 0, 1, 4)
- d. Available = (1, 5, 2, 2)