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1. Each philosopher begins the supply and demand of chopsticks by requesting a chop. From there, there is one chopstick left in the table. That chopstick is based around, round-robin style, and back to philosopher 1. Thus each philosopher alternates the actions as to not break the system.

2.

	Alloc	Request	Available	
	ABC	ABC	ABC	
P0	010	201	100 (+211)	P3
P1	200	202	311 (+010)	P0
P2	303	101	321 (+303)	P2
P3	211	100	624 (+200)	P3
P4	002	322	824 (+002)	P4
			826	

All process finished: NO DEADLOCK.