All Interval Scheduling Problem - Requests Sorted by Start Time

9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30				TOP KEY		2nd Key		3rd Key	
		а															PQ	C1:	a@10:30					
				b					Check	PQ top	to find	b starts	before	a ends	=> new	room	PQ	C1:	a@10:30	C2:	b@12:30			
		С				Check	PQ top	to find	c starts	before	a ends	=> bef	ore b t	00 => n	ew room	<u> </u>	PQ	C1:	a@10:30	СЗ	c@10:30	C2:	b@12:30	
						d			Ck PQ	top to f	ind stai	rt d ≥ en	d a =>	sched	after a		PQ	C3	c@10:30	C1	d@12:30	C2:	b@12:30	
								е				Ck PQ 1			t e ≥ enc	dc	PQ	C1	d@12:30	C2:	b@12:30	C3	e@2:00	
	Ck PQ	Ck PQ top to find start $f \ge \text{end } d \Rightarrow \text{sched after } d$ f Ck PQ top to find start $g \ge \text{end } b \Rightarrow \text{sched after } b$ g											PQ	C2:	b@12:30	C3	e@2:00	C1	f@2:30					
	Ck PQ												PQ	C3	e@2:00	C2:	g@2:30	C1	f@2:30					
	Ck PQ top to find start h ≥ end e =>				nd e =>	sched	after e				h				PQ	C2:	g@2:30	C1	f@2:30	C3	h@4:30			
					Ck PQ	top to	ind star	ti≥en	d g => :	sched a	fter g			i			PQ	C1	f@2:30	C2:	i@4:30	C3	h@4:30	
		Ck PQ top to find					ind star	tart j ≥ end f => sched after f								PC	PQ	C1	j@4:30	C2:	i@4:30	СЗ	h@4:30	
Room #1		а				d				f				i										
Room #2				b						g				i										
										9				-								+		
Room #3		С						е					h											