Date 10 . 16 2020 Max Shi CS 57/ and Gran 1. Scheme: (P, Q, turn P, furn Q, current, turns) (P4, Q4, -, -, 6, 0) (P5, Q4, 0, -, 0, 1) (P5, Q5, 0, 1, 0, 2) (P5, Q5, 1, 1, 1, 1) (P7, Q5,0, 1,0,2) (P7, Q5, 1, 1, 1, 3) (P8, Q5, 0; 1, 1,1) (17, 27, 1, 1, 1, 0) P7 and Q7 are corthal scelos of Pand Q, and asthey are both in the crothal scother at the same time in vites does not bold. 2 Semaphore ready Tolot 2 new Semaphore (0); Emaplore dame (Itting I new Samaphore (3); Emaphore barbor Chair = new Sanaphore (1); Semaphore secretary = new Semaphore (0); Emaphore register = new Schaphore (1); Threadistart of Usecrolary Thread start of 11 Client While (true) 2 barber Chair, acquire() secretary acquirecs; ready to Cut, release Op 1/ receive payment done Culture aquire () barberChair, release() register.acautre(); secretary, release (); 3 11 pay secretary register, release();

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3 . ~ ()	
3 monter Grid 2	
Int producers = 0, consumers = 0;	
Condition stopping Producers; Condition starting Consumers;	
Carried State and Carried Stat	
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wid start Consuming 2	
while (producers = consumers) 2 startins Consumers, wait () 3	
consumers ++;	
you'd stoplansuming() &	
consiners - j	4
Stopping Producers, S/g na/()'	•
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void start Producing () 2	
producers +t;	
starting Consinuers, signal ();	
3	
usid stopProducing() {	
while (producers == consumers) & Stopping Producers. Wait() }	
producers j	•
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