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Operating System 4029

Due: February 28th, 2020

Homework 3

1. Show how can you avoid race conditions with the Load-Linked/Store-Conditional instruction pair.

Race conditions occur when two or more threads try to access shared data, then try to change it at the same time. Load-linked and store-conditional instructions are a way to achieve atomic memory updates without locking the memory locations. Load-linked instructions accomplish this by loading the value that is stored at the memory location into a register. Then, the value can be modified at the register. The store conditional instruction pair then writes this value back to the memory location it originally got the value from. Store conditional instruction will only overwrite the value in the memory with the modified value if no other processor has worked on it while the value was be working on in the register. Therefore, when the updated value is stored, the tread will trust it has been successfully used without any interference with other treads.

2. Consider the following set of processes, with the length of the CPU-burst time given in milliseconds:

|  |  |  |
| --- | --- | --- |
| **Process** | **Burst Time** | **Priority** |
| P1 | 10 | 3 |
| P2 | 1 | 1 |
| P3 | 2 | 3 |
| P4 | 1 | 4 |
| P5 | 5 | 2 |

The processes are assumed to have arrived in the order P1, P2, P3, P4, P5, all at time 0.

a. Draw four Gantt charts illustrating the execution of these processes using FCFS, SJF, a non-preemptive priority (a smaller priority number implies a higher priority), and RR (quantum = 1) scheduling.

![A close up of text on a white background

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENhcmkgTm9ydGhyb3AAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzMxAACSkgACAAAAAzMxAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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5UUUAH2eE/8s1/75pPs8IHEa/lRRTABbw/88l/Kl+zw/8APJP++aKKAP/Z)

b. What is the turnaround time of each process for each of the scheduling algorithms in part a?

![A screenshot of a cell phone

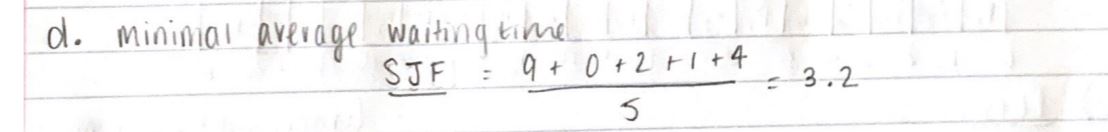
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c. What is the waiting time of each process for each of the scheduling algorithms in part a?

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igAooooAKKKKAGy/6l/wDdNZFlPdixTZagg99wrXl/1L/7pqppwIsUGelBovgZh6LpFzpOoX1yluWa7fzG3MOtUviFPef8IRfmWJEXA/i6c12YHFVtS0y01exez1CITQP95D3oM+pneHri7l8M2D+SCxgXlm68VbWfUmBzaxp2B8zrVy2gitbaOC3XZHGoVVHYVLgUAZofVduPKhz676Xdqe3mOEn2atHApcUAZu7VD1ihHtuNKo1PuIgMetaGKNuBQBnhdR55iPpkmqk+h/a9Wt9TnCi6t12oyuQCPQitvGetLigCm63pHyNED+NIIr0f8toz/wABq7ijFAFNY73PzTR49kp5ju+0sY/4BVnFFAFQQ3g/5eE/FKcYLktn7SAPQIKs0UAVvs8563R/BBSm3m2gC5Yep2jmrFFAFWWz8+2eG4fzEcYYMo5FQ2ujwWEHk2P+jp1IjAFaFFAFMWDg5+1Snn1FKLEgkm4lOfU1booAqfYOuZ5cH3pg0xR1nlI9C1XqKAKNtpNpaNI1vEI3lOZGUnLH3p/9nRls75f++zVuigCkdMh5yXOf9o1xni/7LqGq6bolmTLM1wHmTcTtUetd+3SsTTvC1jp+uXWqxb3uLn7xc52/SgZojTrfykTYMKMDmhdMtVbIiwfXcat0UCKxsYCMFOPqa57xZ4QPiGyhgtLkWZjcMx2bgw9OtdVRgUAYuieGrTR7ZUX99Lj5pX6n8O1af2KDn92uTU9FAEH2KDOfKX8Rml+ywgYEaAfSpqKAIBZ24JIhjyevyil+yw8fuk46fLU1FAEX2eIf8s0/KlMMf9xfyqSigBnlIR9xfyo8lP7q/lT6M0AM2L0AH5UoQDsPypc0pNADNo7fyp23HSjFLQAmKQDmnUYxQA103KVzjI6+lY+geG7bQWuXgleaS5kMju/X6VtUUAFFFFABQaKKAExS0UUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAAaQDFLRQAUhbFH8Nec+KPGN5ZfETSNLsLnbbPIFul2jnPQZoA9GzS00dKdQAUUhNIWoAdSbq4e5+IX2vxFLoPh6za5voyQ7S/Kqe/vWvZaf4kaVZb/WYkXqYYbYEfTJoA6KikXIUZ5NIzY6UAIzbcluAOpNJDcRXEYeB1kT+8pyKw/GerJo3hG+u36+WUUepPFch8N9avrW7i0G/VVjaDz4Tj5jnmgZ6fRSDpS0CCgUUYoAKQjilopAJQaWk6UwDvQaKSgBrKsgwwDAeozUg4FMxjpTgeKQC0UUUwCiiigAooooAKKKKACiiigAooooAKKDRQAUUUUAFFFFABRRRQAUZopAMGgBaKKKACm5yacaaaAG9DS96TFLigA/CilwKKBhg+tJ160tHSgBRSHpRmj60CE6daVeKMUtAxaKKKBBRRRQAUUUUAFFFFABRRRQAUUUUANl/wBS/wDumqWlNusVJGD3q7L/AKl/901S0pgbFaDRfAy9SE0UooMxOadRRQAUUlBNAC5pM0lLQAtFAooAKKDRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUhGaWigAozRRigAooooAKKKKACkBpaAMUAFIaKazelAC04VFnPGSKfnFIB1FNz70p6UwFopAaWgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKQnBoAWiiigCtf3S2enz3DnAjQtzXjviWNovB6a1LazPfXF4J0kRc7VB4yewrufHc014LPQ7Jj517KN4U4wg6k1raroyXXhO40uEYBtzGoHHOKW4ytpF/rup6daXC29pbQyRKxMjFmPHoK6IBgvJBOOa474Z6obzwslncSA3Vi7QSITyMHjiu0IBpiMJrzXn1MxJpsEVoG5nkmySPZRW0ORWZfaGt9qKXMl9eIiDHkRy7UP1wM/rWmECIAvYcc0AcVqPw8WPWrnXdAv5rPUpfmIJ3Rsfp71p+DPEMuuafKl8qpfWshinVehI71ralq1npNuZtRuEgix95zgVx3w3d7/AFDWtWjjkS0upz5LMuN49RSGegZpCaQ5rA0nxNJqviC/0xtKu7ZbM4+0SrhJPoaYjzr4ma6+qeM7HQEtrl7W3YSyrGhJlb0FM1q71yPxVpOoDTzo0cii3hklIZvbcO3417H9ltzOJzDGZQMCTaNwH1rB8YeG38Q6ZHHbSJFc28olhd+gIpDNXRoL230xI9Tu1u7jJJlVNoI7cVfqG1WRLSJZiDIqAMV6ZxU1MQUUUUAFBozSE8UAKKQ0Aj1ppbCnNAC5pM0wyDsw9+aPMTONw/OkMkzSZxUZnjVeGH503zUwCZFH40gJ85p1QCWPrvUD1zUgkUrkMCPXNNaiH0U3zFxncPzpPNQ/xr+dMB9FQm6hB5lT86VriJBlpFA9zQBLRUH2yDGfNX86b9ut/wDnquKALNFVjfQAcyAfhTf7Rg/vH8qALdFUxqMJbA3n/gBobUolGSH64+4aLAXKKpf2khX5UkJ9CtKNQ9YZf++aALlFZ76k6f8ALrK3+6uacuosettKD6YoAvUVT+2TH/l1k/Sm/bbnOPsjj8aAL1FUjd3AXP2Y/nThcXJx+4x9TQBboqm9xdg4S1z77wKPNutp/dKG7c8UAXKKzzLqI+7FDj/epwbUCBlYh+NAF7NNOe1UXOodvJx7E5poGpN/FEoH15oAvUp4xWeRqQ+6Yz7mgpqe778JH40DsX8HOaUY71nBdSI+Zox9KUxakek0Q+uTSEaJpCPSs8QagW5nTH0p3k6hjBnQfRaBl4ik5H0qkYLxm4uAvGOlILW+P37ofgtAjQU0uao/Zrwnm5A9MLSG0vOou/zWmBfzRmqYtrof8vOfwpVtrjcS1y30xTAuZozVY28n/PdhSG3kyCLh/cGgC1RQOlFIAooooAKKKKACiiigBsv+pf8A3TVHSRiwX8avS/6p/wDdNUtJwLFQOAKDRfAy53pwNHFHFBmLnnFFNzRuA7j86AFNBFJu96N3vQAtJmml1z1GfSlDA96AHiim7wP4hSeYo6sv50APophlUfxD86QzIDguufrQBJRUXnxkkCRTjrzR9oj/AOei/nQBLRULXUS9ZF/Omm9gU4aVQfc0AWKM1XN5B181cDrinC4jK7g4K+ooAmozUBvIR/GPwFNF7E2Tk49SpoAs0VCtwjKWXJAGfumq66pA39/rj7hoAvUVU+3rz+7k/wC+ab/aILYEE599lAF2iqQv2b7ttNj1K4pftr4/495OnpQBcoqmbyYDi1kPsMUn22fbkWj5z0JFAFxmCrluBSbgRkHis/ULyeOBPKtmdmYZGRxUZvLvjFkQPXeKANTcCOKUHrWat1ef8+v0w1Sxy3bMA9uFHchs0AXcilrKE1/9rkxbKVB4JerSy3ZbBhQDHXdQBboqqzXf8Kx/iTSbr0YykJ9QCaALW4Ck3qDgmqE39pGXEXk7cc5JqPyNQZvnaID6c0AagcHoc0ZrLFtqA+5JEo75zUsUN8g+aaMn0AoAvMwC9cUzcvYjmq7wXUn3plGOwWqVxBeiZV+1KAem1KNhmrx+Jo/z1rLFtqGMC9Qf8ApwtNQOQb0H6L0pAaY4607NZS2F2Gz9tO7/AHBThYXR6XzD/gIoA0ulOBrJWzuGZh9tcbTjpUwsJ9uGvHP0ApiNDcKNwqh/Zz/8/ctK2nsVA+1ze5z1p6AXt1G4VSOnAgYuJuO+7rTo7BFXBkkY+pagC3uFG4VXNlGerPjt8xpVsYl6b/xc0AT719aTevrUQs4QuCufqaT7Fb5z5QpATGRB1YD6mo2uoF+9Kg+ppr2lvJw8at9aT+zrTH/Hun5UaAK97boPmmUfjSi9tyoYSqQaDZ2+BmFD/wABpwt4gu0Rrj0xQAw31uP+WgPsKGvrdesg/KpfJjx9xfypkqoq/dU59qAITqtouMydenFA1W1b7rM30U1YREA4UD6CnbF9KAKaapA+cB+D/cPNJLqkUeMwzt9IzV7YPSlxQBnR6qkjBfInGe5Sl/tJSDthmb/gOKuTfLCx9BUVq26AHvQBCNQZjhbWb6laUX0hYj7JN9cVcGD0pcUwKDX0+4BLKQ885NJPeXfkt9nsmMgHyh2ABNaG0UNwM0AcfoOl6qmq3OseILeJ72X5IViOREnpmuj8+7bpa4+rCrUTb1zT8UgOS0nwvJpviq71m3LRJdL+8tgRgt/eromlvA3ywIw/3quYpMUAUt9+RnyoV9csaZ5l+ScLFwOOvNW538uF2/ujNNt38yMMDkMMigCnLb3V5B5d5b2sik8q67h+tPihvYYwka28aqMKqDgfhV/g9KdigCg6ag0YxJErZ5wDUfl6oJBtkg298qc1p4pCKAKRjvCeZ0H0WkEF2cYulPttqWRv9LVQe3SpxgHigCn9lvD1u+PZMU6O1uR/rLsuf90DFXaMUAUzaTHGbtxj+6BUX2F1/wCXyX3rRNMfiMn2oAotYs3P2uXpgkGlFhkf8fMx/wCBVPCxaEGplHFAyhDpZiDbrqVs9y1JJpykfNcT8+jVpEVFL6ZoEZo0qLcCZZm/3nJpsmljbjdKoPo3Naak+vFPHPWkMxxp9sox+83DjJc0n9mW55O8/wDAjUwkVriVVOcNUw6cVDGiBNJt2YA78f71Xk0+3RVCx8L05NLENvWrI6VcRFf7Db5z5S0os4A2REmfXFT0UxFVrSFxhUCn1Ap62kYUBlD4/vc0tuxZTuPO41NQBCLWJW3LGoP0p/lL/cX8qcGB6UtADGUIucDA9qAoP8Iptz/qTj1p6fdH0oAAuOgo2DrgU6igBu0egpH+UE+1OPtTJf8AVt9KAI7aXzoRIVCk1NgdqqWQC2ijrzVpDQA+iimvnjaaAFxn3opR0oNAEKMxd8njtUuM1Ch/eMB0zU4oAbtpaWkY7Rk0ANIxTHzuHoaWKUSqdvaiU7VB680gEA6U7vSdO9LnNADGO5smlB9aDRSKFzSg5pvrSrktzxTEPAp1IKWgQUUUUwCiiigAooooAKKKKACiiigAooooAKKKKAGTf6l/90/yrF02waawUtdzqPRWAoopGkfgZc/srIwbu4I/36QaQoHNzOfq9FFMzF/slSctcTH/AIFTjpcPlqpZzjvuoooAQaVCOryH6vSNo9u3VpD/AMDNFFACjSbZAchm+rmnf2VanGVb2+c0UUAL/ZlsRymf+BGgaXaL0iA/E0UUAOGnWqrgRDB6jJp/2K3wB5KEYwOKKKAAWVuBxCn5UCxthz5Kf980UUwHfZ4geI1/Kl8mP+4v5UUUAOESf3V/Kl2gDAAoopABUegpQKKKYAxxTAOe35UUUASDiiiikAUUUUAFFFFAFDUCf3Y96cr4xmiigZZBp5oooEV4cs7knjPAqzRRQAUUUUAQO22VselKGJoooAenNPzRRQAVTuuJ4z9elFFJ7DW44HjNCt831oopAOJ7c05DnPtRRR1ArQvl5iem/pVxGyuaKKYD80wtgiiimIeKM0UUAFFFFABRRRQA3PzU4dKKKACjNFFABVS/fy0Qj+9RRQBYjO5AafRRQAUUUUAQXvNo49qjt/uBfQUUVLH0LK06iiqEFMl/1Z+lFFAEcH+rX6VMDRRQMWgHNFFAite4+yuD34qO1+SML2AoooY+hZHoP1p4oooELRRRQBSyTqR54C9MVbHFFFADhSdKKKADOaST/Vn6UUUAVrY4i2irC9BRRQAOcDjrUbqRGxPJxRRQNDYTkegxU2MCiikgMaBcNLJ3ZzVuMhsdqKKgb3LWO4qcdKKKqImFB6GiiqEV7blD9TViiigBAMUtFFAEN0cQ/iKlXpRRQAtBoooAQmmTH9yx9qKKAKlic2oqyvHeiimBIORS0UUgANmg0UUAVoSfOkA9e9WRRRQAtRXBKwsR6UUUAQWI/cknqTzU1w22Pj1oooAarblGetOoopAL7UhPNFFJldAHNPUUUU0IdSA5Y0UUxDqM0UUAFFFFABRRRQAUUUUAFFFFABRRRQB//9k=)

d. Which of the schedules in part a result in the minimal average waiting time (over all processes)?



3. Explain why spinlocks are not appropriate for uniprocessor systems yet may be suitable for multiprocessor systems.

Spinlocks is a lock on a thread that is trying to access a resource that puts the thread in a loop, and repeatedly checks to see if a condition is available to unlock the thread. The lock is busy waiting. A spinlock would not be appropriate for uniprocessor systems because the condition that would break a process out of the lock can never be obtained by executing a single process. Therefore, spinlocks can only be appropriate for multiprocessor systems, because the condition to break the thread out of the loop can be met.

4. Create two processes that write to the same shared memory area (you can use SysV shared memory or mmap() ). Make sure that you can demonstrate repeatable race conditions.

The picture below shows the output for race conditions. Functionality is to run the server, as well as two clients and two input text files all at the same time. Attached is the code (raceclient.c, raceserver.c, process1.txt, process2.txt). The program bounces between reading in the first and second text file.

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENhcmkgTm9ydGhyb3AAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzgwAACSkgACAAAAAzgwAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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U2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A8l+M3/JYNf8A+uyf+ikrh69V8U3ekX/jDxZ4xS2TVbeGW3W0hmUhCXRRvdSM4GOAev5GuJn1D/hJtZ0+O30GyinMgRrewXyVuASMA8/L3+bPf2rl+sPnlFR0ju7rtc4vrTdSUVH3Y7u63tf8mtTAor1ubR7S7sNVs7+08KxmC0kkjj0uT/S4XQZG445A6GubS803QvA+hXx0Oxvr+5Nyokuo9yALIAdyjG84IAyeK5KeYqorRg2723XZvf5f8OcVLNlVVoQbbdrXXVN3v8nf8LnFRIJJkR3EaswBduij1q/rum22k6q9rZajDqUSqCLiEfKSR06np9a1LrxJpsWvLqek6FY7ZbZUntLu3DwrL/EyKDwOBjp34p/i21toPiPPb29vDDB50OIY0CoAUQkbRx3NbqtN1YqSaXK3bTpb8rnTHEVHWipRcU4t203TXz0v3szl6K9Uku9F/wCFiv4Zj8M6aLSWUxSytF+93Fc5Q/wAeg9O1YOLHwl4Zsr5NJtNTvL+edTJfx+ZHEkb7doXIGT1zWMMwcrLkd5WsrrW938tmc9PNHPlXs3zSs4q61TTfy0iziaK9J07TdK1TxR4W1FdMhtk1VLj7RZhAYtyBhuVT0B646cVhnxToc1ldWUnhmzggWL/AEKSJN0yyDlfMkJBZTzn8sGrjjZTdoU27b7aatfPVM0hmEqkuWFJu2+q095xfXXWL26HNyabdxaZDqEkJW1ndo45Mj5mXqMdang0a4uNButWR4hBaypE6kncS3TAxjH413V94s8vwHpd7/YGhv51zMnkPZZiTGOVXPBPc1T8P6paw+DNf1G90y3uUa/ikWzA2QqxJIGP7oz932ArH65XdNycPtW33961v+Cc/wBfxLpObp2any7rX3rW9fPY4Giu9uIrDWIvC2rjS7OzlutQ+zXMNtHthkUOuPk6DgkH1zRqHiDw/p/iHUNIn8M2Y01JpopJUjDXO8EjcjEgKMgYUdBWyxspaRptvW600s7P18jdZjKWkKTb1urrSzs+uvl+hwVFdvc3lj4Q0zSIrfQ9P1Ce+so7ye41CHzc78/KgzgYxiteLTNDs73U79tISW1k0aLUFspT/qnZuVVuqjj8j6cVMswUVzcjs9ttdbfL+tiZ5oorm9m7PbbWzS76b6X+djzGttPDE4eKC8v7GyvJgClpcOwk5GV3YUqmQRwxHWuy8OrpvjC0e7u9EsbB9Lu4pA1lD5azRkMSjD+I/LnP098wNpOl3GnXU1/pk1/qk+lHVZL0zOFSSX/VxhF4PJzyex/DKpmD5nBpprfZ77dbW79eiMKmaPndNxcXHfZ6vbd2t366pI5yy8AeJ9QtzPaaWWQO0Z3TRqQysVYEFgeCCKz18Oau2upoxsZE1B87YZCEJwCc5JAxgHnNdp8UztstEKkh1lutx6HfmPd/49mtLQZprq68B3GpFnvX+1jzJM73iCnaT7Y6evWsVmGI9gq7tZ81lZ6WUmuuq012MI5pivqyxMlG0ueys7pxUmr66r3ddtzhdU8D+ItF0+S+1PT/ACbaMgM/nxtjJwOAxPU0af4F8SapYreWWlSPA43KzOqbh6gMQSPcdaTVv+ES+wN/Yf8AbX2vcNv2zyvLx3+7zmtiXUtG8Zy2I1C7udI1eONIFmC+ZbuRwvAIKEnHI4FdMq+JVNSa6u75Xov8PNf53+R2SxOMjSUmuru+R6Lp7vM2+uqfyOWOj362V1dtbssNnKIZyzAGNzxtIznt6VYt/DGr3UlgkNpl9RVmtUaVFaQLnJwTkDg4Jxntmu38PaRFb6drGmeKZcbdVgWZi5KytyVy3UKxxluoB7duI8SzanN4iu/7cXy7yN9jRAYWMDoqj+7jp6jnnOaqjip1qkqcGtOvfRWtrrq9fKy63KoY2piK0qUGtOurumla2qvq7vXay63Wqfhn4tVSTpPAGT/pMX/xVZ+keD9e161NzpWnPNCDjzC6opPsWIz+FW9b/wCRD8L/APb3/wCjRVjx1LNDJo1pCzJYR6bBJbKpO0krkv8AUnvUwr4mVo3jduS2enK2v5tb+qtruRTxGMnaHNG8nJX5XZcraenNq3pbVW13Mqx8Ja5qOp3OnWmnubu1GZondYyg/wCBEetJrPhXW9AjWTVtPkgjc4EmQ659NykgH2r0aJI73SWOs3ZtZZvDcYubhkMjKvmHa5Uckkfia5HUNS0bSfB91oWj6nPq7XsySPK0DQxwhTn5VbncTjPt9Kxo46vVqcqXVJ6P5vmvZd0tzDD5jia1XlUVo0mlGXzfNflXdJq7RyFb+l+B/EWtafHfaZp/nW0hIV/PjXODg8Fgeop0ujeG00tp4vFXmXYh3ra/2dINz4zs35x14zUnw9/5HzTv+2v/AKKeu2viJewnUo6ON370X0Xny/fqehiMVP6vOrQ0cU370Za2V+vL9+qILnwR4htNStNPuNP2XV7u8iPzozv2jLchsDj1pdU8D+ItF0+S+1PT/JtoyAz+fG2MnA4DE9TVn4b/APJQtL/3pP8A0W1VdW/4RL7A39h/219r3Db9s8ry8d/u85rP22IVdUm09E21F9W/72mi8zJ4jFRxKoNpqybai+rkv5/d0Xn1fkWE+HXiqW1S5j0ovE6B1KzxkkEZHG7NZ+l+Fta1m8uLXT9PlkntuJkfEfln0O4jB4PHXg123iG00FdY02/1PxFNY3MNlbt9mgtHZyAvG2QHAJ/SuZvtd0rXPFuoXusDUINNu2DCGzZd5ZQFQsG+Xpn6E8VhQxWJqwckul/hejvtq/e06po58NjcXXg5JLa9+SSs77av3tL6ppGbeeG9X0/WINLvbJ4by4dUiRmGHLHAw2dp5OM5rRuvh54osrOa6utL2QwRtJI32iI7VUZJwGz0FW/Gawz6Hod3pEzyaOsbwW6TKRLE4OWDkk56jGOBjGPWprf/ACIfhf8A7e//AEaK1jiK8402mlzNp6Ppfz02219WbQxWJqRpSi4rmbTvF9OZ/wAyt8O2tr7vrU0jwfr2vWpudK055oQceYXVFJ9ixGfwqOz8L6zf6zNpVtYub6BS0kLsqFQMc/MQO4+ua1/HUs0MmjWkLMlhHpsElsqk7SSuS/1J711lq8c1xBNrJmLyeE5ftZQgytHnrz/EVzye/WsamNrwpqppaV7KzuvXXX8NTnq5hiYUlW0tK9lZ3Vu+uvna1nocBrPhDXPD1qlzq9j9nhkfy1bzkfLYJxhWPYGsWtjWv+Ea8iP/AIR3+1fN3fvPt3l7duO2zvmlOtWR8GjRv7GtvtouvP8A7Tz+9K4x5fTp+OPbPNenQlOVO89/S34Xf5nsYWVSdNOrv6cv4Xf5mNRVmOCF1VWlxK4yP7o9jUctu0WxWOZG6qO3pXrzy7ERpe2snHTVNO17WT89Vpvv2dtudXsM8s+T5nAXdtHvUi2k7xh1jJU9OafLtE0UHVY8A+570ly8n21uSGVsLjt6V2SwmFoqUqqk1FqL5Wl71m5O7T0VrJdd7onmk9iuRg4NFaM5jj86RoldhIMZ9dtMWJLnyHKKm5iGC8A45rapkUlVdCnUTn2s1pzcl77b/gJVdLtFGitBkjaNw5tVGDtMbcg/1qIukNtCwhR3YHlhx19KzqZP7JtzqpRSvez7pWtv1Vv0Gql+hUoq3GEluGeKJAoXnzDhVNPnCpCk2yBmD4/d8qRjvURyhyoyrKouVX1s7NJ2uu/9LcPaa2sU2Rk27hjcNw+lLDGskm15BGMZyat3FxtEX7mI7oweV6fSorRgzGJo42BBO4rk9K1+oYWGPhQjPmTa0afW2l1be+62Dmly3sVqKsWao0r+YoZQhOKcWSe1lbykQxkbSox1PeuOjl/taHtedJtSaVnryq71222Kc7O1irT4oJJifKUtjrWgkWxkCwRGHALO/Wq32iNvMjkXEbNkeWMY/CvQnk9LCuP1qpa91azV7K+kmmrXsuazRHtHL4UQSxPC22RSpplWgghkicsJYWOBkdPXijyhAZ2cA7flTPcnv+VclTLHzNx92Ket2nZcvMndaNNXtbexSmVaciNI4RBlj0FWoDH5KiNYTJ/EJRyfoaW0cpe+WYlXLHqOV46A1rh8qpzqUFUqe7UaWiva/S+1+muz6NCdR2dlsUqKnMn2iRIzHGmWAyi4NWzHFuMbfZhH0+98w/Gpw2U/WuaVKouVNK7TWr/JLq/wCVTl3Rm0VoRrEBEjRq25CWbHpnpTGMJNvLJGqK27IUccHitJZK4wUnVj0ve+l3Dd7ac8b/PsHtNdilXaeGvhZ4j8SafLfR2ctva/Z2lt5JAo+0OB8qAMwIDZ+90rlbkExbhHDgH78Xb2Neu6frWk+NvBupzajNJol89va6U9y4M1ux3bl2KOU3bOew4PNeXjMK8NNwvf5W3/AD17X+exUZXtf+v6R49eWc+n309ndp5c9vI0cqZB2sDgjI4PIqGr+u6LdeHtcutK1DZ9otX2OUbKnjIIPoQQaoVxLVXNGrOwVJbwS3VzFb26GSWVwiIo5ZicAVHXX+A4003+0fFV0oaLRo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Then use SysV semaphore to avoid the race conditions.

The picture below shows the output for avoiding race conditions. Functionality is to run the server, as well as two clients and two input text files all at the same time. Attached is the code (sysvclient.c, sysvserver.c, process1.txt, process2.txt). The program finishes reading in the first file then moves on to reading in the second file.

![A screenshot of a computer

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENhcmkgTm9ydGhyb3AAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzk4AACSkgACAAAAAzk4AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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U2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+baK9D8S+IdZ8Oa2/h7RbWO20yNRHFbC2Di5UqMsSQSxOeSD+tR+DftWk+GZNSfWrXQ7e5ufLiuPsP2meVgPu47L1/HPtXm/XZex9q4rW1tW7372i3fyVzyP7QmsOq7gvetyq7bd+9otp+SUjgKK9cngi/4Wv4anBWWW6si804gMJnbZIN5Q8qSAK46Xx9eXWm3mm3tlavp00Bjt7WKNY1tW/hdTgk468nv1FKljala3s4X0Tett2128utvkKjmFXEW9lTvom9bWu2tNNdr62+TMixg0aTRL6W/vJ4tRTH2SFEyknrk4/qPxrLrtbPXdR1T4a65Z31x5tvYpaJbpsVdg8zGMgZPAHXNP8K6rLo3w/wBZvbaKGSeO7hERmQMI2II3AHuBnFP6xUpqbau+ZK19NUutlbfzH9aq01Uk43lzqKXNpqo2s+VW31VnrfU4eivUbJk8Xr4UvfEKRXE8lzcQyPsCecEUsisBx1AH4+9V9C8Qaz4j1u50TX7SOTShHKJ7f7MqLZhVJBBAypBAAJNZ/wBoSSb5Ph1lr5taaa7eXQyeaTSk/Zr3E3L3uza93TXZ726Hm1W9J0yfWdWt9PtCgmuH2IXOFB967E+Ibvw98PvDkulpCl3MbpVuXiDvEokGQucgZzzx2q14Z8b6hqfjqwSBY7OO92JfIiKRcyKpzJ93K544HpVVMViPZznCCsubW/8AK2treX6eZdXG4r2NSpTpq0eazcv5W1tby089HZanALasdRFo7AN5vlFhyAc4zVrX9K/sPXrvTfO8/wCzPs8zZt3cZ6ZOOvrW1rHinXdW1qPTdYumkggvwyxNCiFWDEDooPQnrXYzeJ7yX4pSeHvItRpc05iuIDAp8/Kcs5PJP/1utRUxWIptScU/dbav2tre2/lt5mdXG4qk4ycE/dlJpS00trflvfytbzPI6K72w1OTw74Au7ixhheePXGigkmTf5J8r76g8bhjgnPWptD1v/hLdWFzqWmwXeq6bp08qOVH+mSgr5YKAAfKCeOc+1ayxk0pT5PdWl76/dbbpv8AKxtLMKkVKp7P3I3V767drbdN9O1tTzyiu/stc1TxX4f12PxJGl1a2do00NwYFT7PMCNqggDr0x14rQ13xVrWk63pWn6DBFumtLdnVYAz3RKgbWJGcYGOMd+al42qp+z5Fza/a00Se9vPsS8wrKp7H2a5le/vaaJPfl8+34anA6ZpP26Ge6ubhbSxttvnTsu45b7qqo5Zjg8egJJFadh4SGuyQDw/fidZJvJk+1ReS0LbWZSwUv8AKQjYIPUYOK73UtGsItVktrKwW8ggW81IWaLuWaYMkaoVHJAJb5fw9q09Fs3sNegluNLt9M+0W9tGY7eIRxtORLI4AHXA46npXm1s2l7Nzp6O10tP+H8+23meRXzyfs3UpaO10nb01W7fXSy28zzK58BahHp813p9/pmrJAN0q6fdeayL6kYH6UzT/BVxf6NbalLrGkWEN0XES3t0Ymba2D/Dg/ge4q18NIbkeMYbyMMtnbRyPdzH7iR7D94/XHH49q0ZtS0az8BeHm1bQ/7UWSS7MI+1PB5Q80Z+71zkfTFdlXEYiFT2MXzO61SV9VJ21aX2b7rQ762KxdOr9XjLmd1qkr6qbtZtK/up7rR/fzlt4Tvb3W7jTrG4s7lbZQ815FODbouAd289ucevB9KXU/CdxpscEqalpl/FNMIPMsrnzQjnoG4BHQ1Npev/ANnahqNxp+jK+kXSeVcWLu0iKh6DzOoPBIP1q82iaXe6VB4h0Jbm0jivY4p7S5O8AsRjy3x8wHTB5/rtKtWpzXO7R0Wy3ts7PR37aeZ0TxGIpVF7R2jotk9WtnZ6O+1tPMyx4Rv/AO3r3S3lt0Ngpe5umZhDEoGck4zz0Axkmp9E8FT69bxPaazo8cspYLbTXRWb5Sf4ApPQZ+ldR48ia8tdVXRCR9lvTJqsA+/JwPLkz3jUcY7HJ561zHw9/wCR807/ALa/+inrKOJrVcJKupWaV7W7K+vruvKxhDF4itgZYiMrSir2t2jfX13XlbuRTeDbz+1LTT9OvtO1We63YFhc+YIwuMlzgbRz+hqTUvA9/YabNewXmnalFbn/AEgWFx5rQe7DAwKseBo5J4fEEFmCb2TS5BCF+8RuXcB7kUvgSCaOXWbuWNlsotMnjuXKnbyvCfUnHHtV1K1am5e8vct03v8Al2XmaVcRiKTn769y2ltZX+enZea+Qo+HV7iBW1nRUuJ41kjtnuysrBhkDaV61zN/Y3OmX81lfRGG4hbbIhIOD9Rwa9B8TzeFbfUrCbWYdVnvY7G3YRwNGsLgLwCT8w98VzEmr6Rr3iW/1PxRHfRpcHdGmnlCVIwACX6/KOvrSwmIxE1zzTcbdut+muqFgcXiqkfaVE3G19rO99lrqrX6GPptj/aWoRWn2q2tPMJ/fXUmyNcAnlu3TH1rpJfh5PDbR3EniLw8sMobynN8QJNvB2nbzg8cVgax/ZH21f8AhH/tv2XYM/bdm/dk5+7xjGP1rW1v/kQ/C/8A29/+jRXRWlVcqbhLlUnazXk3+h1V515TpOnLlUnazSvtJ/oJp/gq4v8ARrbUpdY0iwhui4iW9ujEzbWwf4cH8D3FMsfB1xqGqX1nb6ppeyxjEkt2bg+QVOOQ4X374rcOoaRY/D3w3/bOif2rva78v/S3g8vEgz90c5yPpj3pnhGbSrg+KJZLSez0xrHLQW8nmSRpuHCs/U/WuN4nEKFSetk2lorfFbTW97d0jgli8WqdWprZNpaRt8fLprdu3dLUw9X8H32k6b/aCXNjqFkH2PcWFwJVRuwPQ1cf4faiIpRDqGk3N3CheSxgvA064+8NuMZH1puo69o1t4duNG8MW16IryRJLm4v3UudpyFCrwOe9avgq80m+vIdKs9GmstTngaL+1YJzKyMVIL7GGFBGckHIzxV1K2LhRdR9G+i27vXTrtd+RdXEY6nh3VfRvottNZLm067Xe2hg+HvCM/iSIm01TTLebzCi29zcFZXwoJIUKcjB6+x9KZJ4UvG16DSNOurLVJ503h7GfzI1GTkM2BgjGfoR61b8Ap5fxAsU3K21pRuU5B/dvyPapfA0ck8PiCCzBN7JpcghC/eI3LuA9yK0rVq1Oc2paJJrTu2tfJWubV8RXpVKjUlZKLV1/M2tfJWuV9S8D39hps17BeadqUVuf8ASBYXHmtB7sMDAqWLwHcNZWtzc67odl9qgWeOK6vDG+xuhwV/zipPAkE0cus3csbLZRaZPHcuVO3leE+pOOPatXXdU0KysPD8er+Hf7TmOjwMs3254dq/N8u1RjqCc+9YVMRiY1PYxfM+6Svte2rS/HZo5quKxcKvsIvmd90lfa9tWlp67NHA3MP2a6lg8yOXynKeZE25HwcZU9wexqOtTRb+5sfFNpfaLZiW5juRJbWpQy5OflXA5b045pur3k+oeI7681iAW9zLM7zQrGY9r55Xb1HPrz6171KDqSjBtK/V6Jep9Ar8t2ZtOjQySKi9WOKseVbSYkD+Wo+8hPP4etMh/dQvMev3E+p6n8q9OOXuFWPtJJw1bad/dSu33V9ldJ30tcnnutBqW5lmZIiCq9XPAx60S2zxIHyroTjchyKfGC2ny7OocFvpT7UEW7luFZ0C+5zXZRwWHqqNPlac4ynzX0Vr2Vuq0tq73f3y5NalSitETyNfNCFXy9xDLt6+5pI9sNsrJMItzHLbN2eaqOSU5yfJV92PMm2lH4XFac0kmveW7j+Vz2j7GfRV9Gie+Ro2D5Q7iFxk4qBrxnjZJFUqR8oAxt+lctXLsPRg5TrdZJWV07JPVp6XvbS9n5alKbb0RXp8cZk3bcfKpY59BWhFujaOF5lBwMxiPOfxqOCWRJJ4kOFRXKgDoc13QyWjTqU/bTdpNppKN00r20m7fOz/ALuuke0bTsUKkkEQjQxsSxHzAjpSvcyu6u75ZehwOKkunaSKB3OWKnJ/GvLhSw7o1nTbdkrXjbS8VfSTs7vs9OzNLu6uVqKuyXDwRQeVgExjJxyfapAgW8uCm1GCgqx6KTiu2OTwnJQhUu7pP3drxctNddIta2V+ttSPaPqjOAJIAGSelWDZuucvHuHVN3NTT3EnkpGJVkk3ZJQZ+lMUR3km0oY5TzuXkE+47VpHL8JGo6CbnN2sn7urWqTXOuZabtLoHPK1+hUoq0qme18scvE2B9D/APXpTKq3igKXSIbQAM9O/wCdcKy2NozlO0Zctnbvfm6/Zs7/AC2uVz+RUp7RlYkc4w+cfhVmeSSSHzFlWVUYHO3BU06S7nW1hcPyxbcdo9eK6Y5dhIe19rOVlFSTUYv7SjfSdnvbR23d7qwueWlv6/Ao0VdtiBbvMZPLcvgvs3Y/wqRZInmVg4lcK247NuRiqo5LCpThJ1UnK1k+XZu23NzX625beYnUs3oZ1FacczO0AYL+8Vt5x1AzgVDDNshRFfyG90yH/GnLJ6CcX7bR/wB1J3tBpayS2mt5LVNK+lz2j7Frw74Z1HxRfSW+mr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D/AHSrhSCDx1x1FaXxftbkeK7e8RGOlXFlANPkAOzywg+UH2OTj396l8BvbaV4Q8Yvr2lPewRw2hlsnlaAuDJ8vzAZHUH3/Gq0d32F0Xnb8TntT8F3NjqNjY2GqaTrdzfOUjj0q687aeOG4G3Of0PpV7UPhrqGn2VzK2s6FPc2sbST2EF+GuIwoy2VxjI7jNV5Nftf+Ek06/8AA/h19IurNjJ5SXUl35pHOcMMgYByB2zW7aadoHxHur4WOmXGg64kL3DeU/mWcrDltwIzESemOB9eKn7P3j629DE0n4eajqWkQ6nd6jpOjWtzn7O+qXgh88DglRgnH1xVWHwNrl14ln0Oyt47q5t1DySRTKYlQgEPvzjbgg//AF61bXxHZXOiadonjfQbm4ht022V9auYrmOJjkBQw2yDpjPY1m+MfD8ng3xBLp9reyyW9zbpKjEGN2ifkLIvqCOR7A8U3o/ISu15lPxR4ZvPCerLp+oTW08rQpMHtnLIVbpyQPSseu6+LX/I02H/AGCbb/0E1wtHVrzf5h0T8kFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFvVNUvNa1SfUdTm8+6uG3SybQu44x0AAHSnNrF8+hpo7T5sEnNwsOxeJCu0tnGenbOKpUUdLB1ua48Va0o0zZfujaUCtnIiqrxKeq7gMkexJGOKt694/8T+JrEWetatJcWwYMYljSNWI6ZCAZ/Gudoo3DY6XRfiJ4r8PWK2Wk6xLDbL92J40kC/TepwPpTdO+IHifSdUvdRsdVZLu/Km5leKOQyY6feU4xntiucoo63FZWsdHqfxA8UavqFlfX+rO11YljbSxxJGY92M/dUZzjvU2qfEzxfrOnvY6hrcr28g2ukcaR7x0IJRQSPauWoo6WH1udVpfxM8X6Npsdhp2tSR20a7UR4o5Ng9AWUkCqOneNPEOl69PrVnqcg1G4Qxy3EqrKzLkcfOCP4R+VYdFHW4dLHTa58RfFPiPS307WdU+02rsGaP7PEmSDkcqoNczRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHfT/CHVo7uSxt9c8P3eox5/wBAhv8A9+TjONrKOfris7SPh3f6ppMmoXOraPpEUd01oy6ndGFvMUZK/dI/Xsa7PxbrHgrw/wDEu/1SSz1q91y1uBIIWkiS1MgUYOR8+BxVWyu9B1f4Z/bPGz6hFFd+IZZN+mhPlkaMElg2flAJ6ZNEdVf+t0OWjt/WzOOuvAGv2viyDw8LZJ7y4QSQNDIGjkjOfnDf3eDycdKtat8N9U03SbnULXUNJ1eKz/4+l0y7857cerrgYH54wa7+5W+l8Q65o9laxw/Z/DJh0YQSGQzQZU7g5wSzAkfhjnGTxfwytriG+1u+nidNOt9KuY7x2U7eV4Q+5OOPal/k3+L/AMtQ6/NL8v8AMpaX8OtTv9Jg1K+1DStFtbkZtm1W7EBnHqowTj64o074dajf6hqttJqek2S6V5ZnuLq6KwkP90q4Ugg8dcdRWl8X7W5Hiu3vERjpVxZQDT5ADs8sIPlB9jk49/epfAb22leEPGL69pT3sEcNoZbJ5WgLgyfL8wGR1B9/xqtHd9hdF52/E57U/BdzY6jY2Nhqmk63c3zlI49KuvO2njhuBtzn9D6Ve1D4a6hp9lcytrOhT3NrG0k9hBfhriMKMtlcYyO4zVeTX7X/AISTTr/wP4dfSLqzYyeUl1Jd+aRznDDIGAcgds1u2mnaB8R7q+FjplxoOuJC9w3lP5lnKw5bcCMxEnpjgfXip+z94+tvQxNJ+Hmo6lpEOp3eo6To1rc5+zvql4IfPA4JUYJx9cVVh8Da5deJZ9DsreO6ubdQ8kkUymJUIBD78424IP8A9etW18R2VzomnaJ430G5uIbdNtlfWrmK5jiY5AUMNsg6Yz2NZvjHw/J4N8QS6fa3sslvc26SoxBjdon5CyL6gjkewPFN6PyErteZT8UeGbzwnqy6fqE1tPK0KTB7ZyyFW6ckD0rHruvi1/yNNh/2Cbb/ANBNcLR1a83+YdE/JBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBb1TVLzWtUn1HU5vPurht0sm0LuOMdAAB0pzaxfPoaaO0+bBJzcLDsXiQrtLZxnp2ziqVFHSwdbmuPFWtKNM2X7o2lArZyIqq8Snqu4DJHsSRjireveP8AxP4msRZ61q0lxbBgxiWNI1YjpkIBn8a52ijcNjpdF+Inivw9YrZaTrEsNsv3YnjSQL9N6nA+lN074geJ9J1S91Gx1Vku78qbmV4o5DJjp95TjGe2K5yijrcVlax0ep/EDxRq+oWV9f6s7XViWNtLHEkZj3Yz91RnOO9Tap8TPF+s6e9jqGtyvbyDa6RxpHvHQglFBI9q5aijpYfW51Wl/Ezxfo2mx2Gna1JHbRrtRHijk2D0BZSQKo6d408Q6Xr0+tWepyDUbhDHLcSqsrMuRx84I/hH5Vh0Udbh0sdNrnxF8U+I9LfTtZ1T7TauwZo/s8SZIORyqg1zNFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAd9P8ACHVo7uSxt9c8P3eox5/0CG//AH5OM42so5+uKztI+Hd/qmkyahc6to+kRR3TWjLqd0YW8xRkr90j9exrs/FuseCvD/xLv9Uks9avdctbgSCFpIktTIFGDkfPgcVVsrvQdX+Gf2zxs+oRRXfiGWTfpoT5ZGjBJYNn5QCemTRHVX/rdDlo7f1szjrrwBr9r4sg8PC2Se8uEEkDQyBo5Izn5w393g8nHSrWrfDfVNN0m51C11DSdXis/wDj6XTLvzntx6uuBgfnjBrv7lb6XxDrmj2VrHD9n8MmHRhBIZDNBlTuDnBLMCR+GOcZPF/DK2uIb7W76eJ00630q5jvHZTt5XhD7k449qX+Tf4v/LUOvzS/L/MpaX8OtTv9Jg1K+1DStFtbkZtm1W7EBnHqowTj64o074dajf6hqttJqek2S6V5ZnuLq6KwkP8AdKuFIIPHXHUVpfF+1uR4rt7xEY6VcWUA0+QA7PLCD5QfY5OPf3qXwG9tpXhDxi+vaU97BHDaGWyeVoC4Mny/MBkdQff8arR3fYXRedvxOe1PwXc2Oo2NjYappOt3N85SOPSrrztp44bgbc5/Q+lXtQ+GuoafZXMrazoU9zaxtJPYQX4a4jCjLZXGMjuM1Xk1+1/4STTr/wAD+HX0i6s2MnlJdSXfmkc5wwyBgHIHbNbtpp2gfEe6vhY6ZcaDriQvcN5T+ZZysOW3AjMRJ6Y4H14qfs/ePrb0MTSfh5qOpaRDqd3qOk6Na3Ofs76peCHzwOCVGCcfXFVYfA2uXXiWfQ7K3jurm3UPJJFMpiVCAQ+/ONuCD/8AXrVtfEdlc6Jp2ieN9BubiG3TbZX1q5iuY4mOQFDDbIOmM9jWb4x8PyeDfEEun2t7LJb3NukqMQY3aJ+Qsi+oI5HsDxTej8hK7XmU/FHhm88J6sun6hNbTytCkwe2cshVunJA9Kx67r4tf8jTYf8AYJtv/QTXC0dWvN/mHRPyQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAW9U1S81rVJ9R1Obz7q4bdLJtC7jjHQAAdKc2sXz6GmjtPmwSc3Cw7F4kK7S2cZ6ds4qlRR0sHW5rjxVrSjTNl+6NpQK2ciKqvEp6ruAyR7EkY4q3r3j/xP4msRZ61q0lxbBgxiWNI1YjpkIBn8a52ijcNjpdF+Inivw9YrZaTrEsNsv3YnjSQL9N6nA+lN074geJ9J1S91Gx1Vku78qbmV4o5DJjp95TjGe2K5yijrcVlax0ep/E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vzS/L/ADKWl/DrU7/SYNSvtQ0rRbW5GbZtVuxAZx6qME4+uKNO+HWo3+oarbSanpNkuleWZ7i6uisJD/dKuFIIPHXHUVpfF+1uR4rt7xEY6VcWUA0+QA7PLCD5QfY5OPf3qXwG9tpXhDxi+vaU97BHDaGWyeVoC4Mny/MBkdQff8arR3fYXRedvxOe1PwXc2Oo2NjYappOt3N85SOPSrrztp44bgbc5/Q+lXtQ+GuoafZXMrazoU9zaxtJPYQX4a4jCjLZXGMjuM1Xk1+1/wCEk06/8D+HX0i6s2MnlJdSXfmkc5wwyBgHIHbNbtpp2gfEe6vhY6ZcaDriQvcN5T+ZZysOW3AjMRJ6Y4H14qfs/ePrb0MTSfh5qOpaRDqd3qOk6Na3Ofs76peCHzwOCVGCcfXFVrfwTqVx4nuNE8+xikto/NmupLpRAkeAd+/uPmXoM89K1LXxHZXOiadonjfQbm4ht022V9auYrmOJjkBQw2yDpjPY1Brvw/vbLxqmg6MXvvtEKXMLOnlskTDOZAfuY75/riq6krbUpeJfBOo+GbO1vZrmxv7G6JWK80+fzYiw6rnA5rna63xTqtjaeH7Hwlo1wt7b2MzXFzeqPlnnYYPl/7CjjPfr9eSqeo+moUUUUwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKALeqapea1qk+o6nN591cNulk2hdxxjoAAOlObWL59DTR2nzYJObhYdi8SFdpbOM9O2cVSoo6WDrc1x4q1pRpmy/dG0oFbORFVXiU9V3AZI9iSMcVb17x/4n8TWIs9a1aS4tgwYxLGkasR0yEAz+Nc7RRuGx0ui/ETxX4esVstJ1iWG2X7sTxpIF+m9TgfSm6d8QPE+k6pe6jY6qyXd+VNzK8Uchkx0+8pxjPbFc5RR1uKytY6PU/iB4o1fULK+v9WdrqxLG2ljiSMx7sZ+6oznHeptU+Jni/WdPex1DW5Xt5BtdI40j3joQSigke1ctRR0sPrc6rS/iZ4v0bTY7DTtakjto12ojxRybB6AspIFVNN8ceJNJ1m61ay1SQX92uyeeVFlZxxx84PoPyrAoo63DpY6bXPiL4p8R6W+nazqn2m1dgzR/Z4kyQcjlVBrmaKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA76f4Q6tHdyWNvrnh+71GPP8AoEN/+/JxnG1lHP1xWdpHw7v9U0mTULnVtH0iKO6a0ZdTujC3mKMlfukfr2Ndn4t1jwV4f+Jd/qklnrV7rlrcCQQtJElqZAowcj58Diqtld6Dq/wz+2eNn1CKK78Qyyb9NCfLI0YJLBs/KAT0yaI6q/8AW6HLR2/rZnHXXgDX7XxZB4eFsk95cIJIGhkDRyRnPzhv7vB5OOlWtW+G+qabpNzqFrqGk6vFZ/8AH0umXfnPbj1dcDA/PGDXf3K30viHXNHsrWOH7P4ZMOjCCQyGaDKncHOCWYEj8Mc4yeL+GVtcQ32t308Tpp1vpVzHeOynbyvCH3Jxx7Uv8m/xf+Wodfml+X+ZS0v4danf6TBqV9qGlaLa3IzbNqt2IDOPVRgnH1xRp3w61G/1DVbaTU9Jsl0ryzPcXV0VhIf7pVwpBB4646itL4v2tyPFdveIjHSriygGnyAHZ5YQfKD7HJx7+9S+A3ttK8IeMX17SnvYI4bQy2TytAXBk+X5gMjqD7/jVaO77C6Lzt+Jz2p+C7mx1GxsbDVNJ1u5vnKRx6VdedtPHDcDbnP6H0q9qHw11DT7K5lbWdCnubWNpJ7CC/DXEYUZbK4xkdxmq8mv2v8AwkmnX/gfw6+kXVmxk8pLqS780jnOGGQMA5A7ZrdtNO0D4j3V8LHTLjQdcSF7hvKfzLOVhy24EZiJPTHA+vFT9n7x9behiaT8PNR1LSIdTu9R0nRrW5z9nfVLwQ+eBwSowTj64qtb+CdSuPE9xonn2MUltH5s11JdKIEjwDv39x8y9BnnpWpa+I7K50TTtE8b6Dc3ENum2yvrVzFcxxMcgKGG2QdMZ7GoNd+H97ZeNU0HRi999ohS5hZ08tkiYZzID9zHfP8AXFV1JW2pS8S+CdR8M2drezXNjf2N0SsV5p8/mxFh1XOBzXO11vinVbG08P2PhLRrhb23sZmuLm9UfLPOwwfL/wBhRxnv1+vJVPUfTUKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFvVNUvNa1SfUdTm8+6uG3SybQu44x0AAHSnNrF8+hpo7T5sEnNwsOxeJCu0tnGenbOKpUUdLB1ua48Va0o0zZfujaUCtnIiqrxKeq7gMkexJGOKt694/8T+JrEWetatJcWwYMYljSNWI6ZCAZ/Gudoo3DY6XRfiJ4r8PWK2Wk6xLDbL92J40kC/TepwPpTdO+IHifSdUvdRsdVZLu/Km5leKOQyY6feU4xntiucoo63FZWsdHqfxA8UavqFlfX+rO11YljbSxxJGY92M/dUZzjvU2qfEzxfrOnvY6hrcr28g2ukcaR7x0IJRQSPauWoo6WH1udVpfxM8X6Npsdhp2tSR20a7UR4o5Ng9AWUkCqmm+OPEmk6zdatZapIL+7XZPPKiys444+cH0H5VgUUdbh0sdNrnxF8U+I9LfTtZ1T7TauwZo/s8SZIORyqg1zNFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAd9P8IdWju5LG31zw/d6jHn/QIb/9+TjONrKOfris7SPh3f6ppMmoXOraPpEUd01oy6ndGFvMUZK/dI/Xsa7PxbrHgrw/8S7/AFSSz1q91y1uBIIWkiS1MgUYOR8+BxVWyu9B1f4Z/bPGz6hFFd+IZZN+mhPlkaMElg2flAJ6ZNEdVf8ArdDlo7f1szjrrwBr9r4sg8PC2Se8uEEkDQyBo5Izn5w393g8nHSrWrfDfVNN0m51C11DSdXis/8Aj6XTLvzntx6uuBgfnjBrv7lb6XxDrmj2VrHD9n8MmHRhBIZDNBlTuDnBLMCR+GOcZPF/DK2uIb7W76eJ00630q5jvHZTt5XhD7k449qX+Tf4v/LUOvzS/L/MpaX8OtTv9Jg1K+1DStFtbkZtm1W7EBnHqowTj64o074dajf6hqttJqek2S6V5ZnuLq6KwkP90q4Ugg8dcdRWl8X7W5Hiu3vERjpVxZQDT5ADs8sIPlB9jk49/epfAb22leEPGL69pT3sEcNoZbJ5WgLgyfL8wGR1B9/xqtHd9hdF52/E57U/BdzY6jY2Nhqmk63c3zlI49KuvO2njhuBtzn9D6Ve1D4a6hp9lcytrOhT3NrG0k9hBfhriMKMtlcYyO4zVeTX7X/hJNOv/A/h19IurNjJ5SXUl35pHOcMMgYByB2zW7aadoHxHur4WOmXGg64kL3DeU/mWcrDltwIzESemOB9eKn7P3j629DE0n4eajqWkQ6nd6jpOjWtzn7O+qXgh88DglRgnH1xVa38E6lceJ7jRPPsYpLaPzZrqS6UQJHgHfv7j5l6DPPStS18R2VzomnaJ430G5uIbdNtlfWrmK5jiY5AUMNsg6Yz2NQa78P72y8apoOjF777RClzCzp5bJEwzmQH7mO+f64qupK21KXiXwTqPhmztb2a5sb+xuiVivNPn82IsOq5wOa52ut8U6rY2nh+x8JaNcLe29jM1xc3qj5Z52GD5f8AsKOM9+v15Kp6j6ahRRRTAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAt6pql5rWqT6jqc3n3Vw26WTaF3HGOgAA6U5tYvn0NNHafNgk5uFh2LxIV2ls4z07ZxVKijpYOtzXHirWlGmbL90bSgVs5EVVeJT1XcBkj2JIxxVvXvH/i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GQNHJGc/OG/u8Hk46Va1b4b6ppuk3OoWuoaTq8Vn/x9Lpl35z249XXAwPzxg139yt9L4h1zR7K1jh+z+GTDowgkMhmgyp3BzglmBI/DHOMni/hlbXEN9rd9PE6adb6Vcx3jsp28rwh9ycce1L/ACb/ABf+Wodfml+X+ZS0v4danf6TBqV9qGlaLa3IzbNqt2IDOPVRgnH1xRp3w61G/wBQ1W2k1PSbJdK8sz3F1dFYSH+6VcKQQeOuOorS+L9rcjxXb3iIx0q4soBp8gB2eWEHyg+xyce/vUvgN7bSvCHjF9e0p72COG0Mtk8rQFwZPl+YDI6g+/41Wju+wui87fic9qfgu5sdRsbGw1TSdbub5ykcelXXnbTxw3A25z+h9Kvah8NdQ0+yuZW1nQp7m1jaSewgvw1xGFGWyuMZHcZqvJr9r/wkmnX/AIH8OvpF1ZsZPKS6ku/NI5zhhkDAOQO2a3bTTtA+I91fCx0y40HXEhe4byn8yzlYctuBGYiT0xwPrxU/Z+8fW3oYmk/DzUdS0iHU7vUdJ0a1uc/Z31S8EPngcEqME4+uKrW/gnUrjxPcaJ59jFJbR+bNdSXSiBI8A79/cfMvQZ56VqWviOyudE07RPG+g3NxDbptsr61cxXMcTHIChhtkHTGexqDXfh/e2XjVNB0YvffaIUuYWdPLZImGcyA/cx3z/XFV1JW2pS8S+CdR8M2drezXNjf2N0SsV5p8/mxFh1XOBzXO11vinVbG08P2PhLRrhb23sZmuLm9UfLPOwwfL/2FHGe/X68lU9R9NQooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAW9U1S81rVJ9R1Obz7q4bdLJtC7jjHQAAdKc2sXz6GmjtPmwSc3Cw7F4kK7S2cZ6ds4qlRR0sHW5rjxVrSjTNl+6NpQK2ciKqvEp6ruAyR7EkY4q3r3j/AMT+JrEWetatJcWwYMYljSNWI6ZCAZ/Gudoo3DY6XRfiJ4r8PWK2Wk6xLDbL92J40kC/TepwPpTdO+IHifSdUvdRsdVZLu/Km5leKOQyY6feU4xntiucoo63FZWsdHqfxA8UavqFlfX+rO11YljbSxxJGY92M/dUZzjvU2qfEzxfrOnvY6hrcr28g2ukcaR7x0IJRQSPauWoo6WH1udVpfxM8X6Npsdhp2tSR20a7UR4o5Ng9AWUkCqmm+OPEmk6zdatZapIL+7XZPPKiys444+cH0H5VgUUdbh0sdNrnxF8U+I9LfTtZ1T7TauwZo/s8SZIORyqg1zNFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAd9P8IdWju5LG31zw/d6jHn/QIb/wDfk4zjayjn64rO0j4d3+qaTJqFzq2j6RFHdNaMup3RhbzFGSv3SP17Guz8W6x4K8P/ABLv9Uks9avdctbgSCFpIktTIFGDkfPgcVVsrvQdX+Gf2zxs+oRRXfiGWTfpoT5ZGjBJYNn5QCemTRHVX/rdDlo7f1szjrrwBr9r4sg8PC2Se8uEEkDQyBo5Izn5w393g8nHSrWrfDfVNN0m51C11DSdXis/+PpdMu/Oe3Hq64GB+eMGu/uVvpfEOuaPZWscP2fwyYdGEEhkM0GVO4OcEswJH4Y5xk8X8Mra4hvtbvp4nTTrfSrmO8dlO3leEPuTjj2pf5N/i/8ALUOvzS/L/MpaX8OtTv8ASYNSvtQ0rRbW5GbZtVuxAZx6qME4+uKNO+HWo3+oarbSanpNkuleWZ7i6uisJD/dKuFIIPHXHUVpfF+1uR4rt7xEY6VcWUA0+QA7PLCD5QfY5OPf3qXwG9tpXhDxi+vaU97BHDaGWyeVoC4Mny/MBkdQff8AGq0d32F0Xnb8TntT8F3NjqNjY2GqaTrdzfOUjj0q687aeOG4G3Of0PpV7UPhrqGn2VzK2s6FPc2sbST2EF+GuIwoy2VxjI7jNV5Nftf+Ek06/wDA/h19IurNjJ5SXUl35pHOcMMgYByB2zW7aadoHxHur4WOmXGg64kL3DeU/mWcrDltwIzESemOB9eKn7P3j629DE0n4eajqWkQ6nd6jpOjWtzn7O+qXgh88DglRgnH1xVa38E6lceJ7jRPPsYpLaPzZrqS6UQJHgHfv7j5l6DPPStS18R2VzomnaJ430G5uIbdNtlfWrmK5jiY5AUMNsg6Yz2NQa78P72y8apoOjF777RClzCzp5bJEwzmQH7mO+f64qupK21KXiXwTqPhmztb2a5sb+xuiVivNPn82IsOq5wOa52ut8U6rY2nh+x8JaNcLe29jM1xc3qj5Z52GD5f+wo4z36/XkqnqPpqFFFFMAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigC3qmqXmtapPqOpzefdXDbpZNoXccY6AADpTm1i+fQ00dp82CTm4WHYvEhXaWzjPTtnFUqKOlg63NceKtaUaZsv3RtKBWzkRVV4lPVdwGSPYkjHFW9e8f+J/E1iLPWtWkuLYMGMSxpGrEdMhAM/jXO0UbhsdLovxE8V+HrFbLSdYlhtl+7E8aSBfpvU4H0punfEDxPpOqXuo2Oqsl3flTcyvFHIZMdPvKcYz2xXOUUdbisrWOj1P4geKNX1Cyvr/AFZ2urEsbaWOJIzHuxn7qjOcd6m1T4meL9Z097HUNble3kG10jjSPeOhBKKCR7Vy1FHSw+tzqtL+Jni/RtNjsNO1qSO2jXaiPFHJsHoCykgVU03xx4k0nWbrVrLVJBf3a7J55UWVnHHHzg+g/KsCijrcOljptc+IvinxHpb6drOqfabV2DNH9niTJByOVUGuZoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)