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Program Description: Write an application to pre-sell a limited number of cinema tickets. Each buyer can buy up to 4 tickets. No more than 20 tickets can be sold total. Prompt the user for the desired number of tickets and then display the number of remaining tickets after their purchase. Repeat until all tickets have been sold. Then display the total number of buyers.

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Variables:

1. Total\_tickets: the 20 tickets available
2. Remaining\_tickets: tickets available after someone is authorized to purchase (total\_tickets)
3. Total\_buyers: set at 0

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Functions:

1. Function name: Ticket Generator

Description: Holds 20 tickets, asks someone how many tickets they’d like, creates if statement inside a while loop to ensure each buyer can ONLY buy 4 tickets and registers the number of tickets sold while keeping track of remaining tickets.

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Logical Steps:

1. Print “There are currently {remaining\_tickets} remaining” to ensure buyer will have enough tickets to buy for occasion.
2. Ask user to input how many tickets they’d like, if over four tickets, print “Sorry, you cannot purchase more than 4 tickets”
3. Create an elif statement if tickets run low and a buyer would like more tickets than remaining, print “Sorry, there are not enough tickets for your order.”
4. End the while loop by registering remaining tickets and buyers if purchases are successful.