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CPT 232

Program 5

11/9/11

**Data Dictionary**

**Analysis**

Outputs: tmpbuf, single\_tickets\_cost, single\_tickets\_sold, ticket\_type, total\_dollar\_sales, extra\_tickets, total\_toddler\_tickets, total\_junior\_tickets, total\_adult\_tickets, total\_tickets\_sold, MAX\_SEAT\_COUNT

**Name** **Type** **Description**

user\_name string user’s name

MAX\_SEAT\_COUNT const int const number of seats that can be sold

JUNIOR\_TICKET\_COST const double const cost of a single ticket for junior

ADULT\_TICKET\_COST const double const cost of a single ticket for adult

DISCOUNT const double const discount, 25%

coupon char does the customer have a coupon, ‘Y’ or ‘N’

ticket\_choice char user chooses what ticket type they want, as well as quit, ‘A’, ‘J’, ‘T’, ‘Q’

tmpbuf char time stamp

single\_tickets\_cost double cost of an individual ticket sale

total\_dollar\_sales double total earnings

single\_tickets\_sold int number of individual tickets sold, can’t exceed 10 tickets

extra\_tickets int tickets sold past MAX\_SEAT\_COUNT

total\_toddler\_tickets int total tickets sold for toddlers

total\_junior\_tickets int total tickets sold for juniors

total\_adult\_tickets int total tickets sold for adults

total\_tickets\_sold int all tickets sold for the day

**Calculated Values**

single\_tickets\_cost = DISCOUNT \* single\_tickets\_sold

single\_tickets\_cost = JUNIOR\_TICKET\_COST \* single\_tickets\_cost

single\_tickets\_cost = ADULT\_TICKET\_COST \* single\_tickets\_cost

total\_toddler\_tickets += single\_tickets\_sold

total\_junior\_tickets += single\_tickets\_sold

total\_adult\_tickets += single\_tickets\_sold

total\_dollar\_sales += single\_tickets\_cost

total\_tickets\_sold += single\_tickets\_sold

extra\_tickets = total\_tickets\_sold - MAX\_SEAT\_COUNT

**Flowchart**

ticket\_choice = toupper(ticket\_choice)

Enter ticket\_choice

Start

while (ticket\_choice != ‘Q’ && total\_tickets\_sold < MAX\_SEAT\_COUNT )

while (ticket\_choice != ‘T’ && ticket\_choice != ‘J’ && ticket\_choice != ‘A’ && ticket\_choice != ‘Q’ )

Y

N

Display error and try again

Input ticket\_choice

ticket\_choice = toupper( ticket\_choice)

if (single\_tickets\_sold > 10)

Enter single\_tickets\_sold

Y

Output error message, only 10 tickets at a time

Y

N

single\_tickets\_sold = 10

if (ticket\_choice == ‘T’ )

Y N

Enter coupon

if (coupon == ‘Y’ )

single\_tickets\_cost = DISCOUNT \* single\_tickets\_sold

coupon = toupper(coupon)

N Y

single\_tickets\_cost = single\_tickets\_sold

if (ticket\_choice == ‘T’)

total\_toddler\_tickets += single\_tickets\_sold

single\_tickets\_cost = 0;

Display type of ticket

if (ticket\_choice == ‘J’)

Y

total\_junior\_tickets += single\_tickets\_sold

N

Display type of ticket

total\_adult\_tickets += single\_tickets\_sold

if (ticket\_choice == ‘A’)

single\_tickets\_cost = ADULT\_TICKET\_COST \* single\_tickets\_cost

Display type of ticket

single\_tickets\_cost = JUNIOR\_TICKET\_COST \* single\_tickets\_cost

Y

N

total\_tickets\_sold += single\_tickets\_sold

total\_dollar\_sales += single\_tickets\_cost

Display single\_tickets\_sold, single\_tickets\_cost

if( total\_tickets\_sold < MAX\_SEAT\_COUNT )

Y

N

Enter ticket\_choice

toupper( ticket\_choice )

Display tmpbuf, MAX\_SEAT\_COUNT, extra\_tickets, total\_tickets\_sold, total\_toddler\_tickets, total\_junior\_tickets, total\_adult\_tickets, total\_dollar\_sales

extra\_tickets = total\_tickets\_sold – MAX\_SEAT\_COUNT

if ( total\_tickets\_sold > MAX\_SEAT\_COUNT )