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CPT 232

Program 5

11/20/11

**Data Dictionary**

**Analysis**

Outputs: 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, ticket\_name

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

user\_name string user’s name

ticket\_name string ticket 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, 7.50

ADULT\_TICKET\_COST const double const cost of a single ticket for adult, 11.50

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’

single\_tickets\_cost double cost of an individual ticket sale, initialize to 0.0

total\_dollar\_sales double total earnings, initialize to 0.0

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

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

to 0.0

total\_toddler\_tickets int total tickets sold for toddlers, initialize to 0.0

total\_junior\_tickets int total tickets sold for juniors, initialize to 0.0

total\_adult\_tickets int total tickets sold for adults, initialize to 0.0

total\_tickets\_sold int all tickets sold for the day, initialize to 0.0

**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**

Start

JUNIOR\_TICKET\_COST = 7.50, ADULT\_TICKET\_COST = 11.50, DISCOUNT = .25, single\_tickets\_cost = 0.0, total\_dollar\_sales = 0.0, extra\_tickets = 0, total\_toddler\_tickets = 0, total\_junior\_tickets = 0, total\_adult\_tickets = 0, total\_tickets\_sold = 0

Enter user\_name

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

ticket\_choice = get\_ticket\_type()

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

N

Y

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

if (single\_tickets\_sold > 10)

Y N

Output error message, only 10 tickets at a time

Y

N

disp\_final\_report

single\_tickets\_sold = 10

Stop

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

if( ticket\_choice == ‘T’ )

single\_tickets\_cost = find\_ticket\_price()

N Y

ticket\_name = “toddler”

single\_tickets\_cost = 0

else if( ticket\_choice == ‘J’ )

N Y

else if( ticket\_choice == ‘A’ )

ticket\_name = “junior”

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

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

Y

N

ticket\_name = “junior”

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

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

ticket\_choice = get\_ticket\_type()

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

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

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

disp\_purchase()

single\_tickets\_cost = apply\_discount()

Y

N

ticket\_choice =

toupper(ticket\_choice)

Input ticket\_choice

while( ticket\_choice != 'T' && ticket\_choice != 'J' &&

ticket\_choice != 'A' &&

ticket\_choice != 'Q' )

ticket\_choice =

toupper(ticket\_choice)

input ticket\_choice

Passed in: JUNIOR\_TICKET\_COST,

ADULT\_TICKET\_COST

Display error & try again!

Y

get\_ticket\_type

return ticket\_choice

N

if ( ticket\_choice == ‘T’ )

Passed in:

ticket\_choice,

single\_tickets\_sold, JUNIOR\_TICKET\_COST, ADULT\_TICKET\_COST

find\_ticket\_price

N Y

single\_tickets\_cost = 0

else if ( ticket\_choice == ‘J’ )

N

Y

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

else if ( ticket\_choice == ‘A’ )

Y

N

return single\_tickets\_cost

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

apply\_discount

Passed in:

single\_tickets\_cost,

DISCOUNT,

ticket\_choice

if ( ticket\_choice == ‘T’)

N

Input coupon

Y

single\_tickets\_cost = single\_tickets\_cost ( DISCOUNT \* single\_tickets\_cost )

if ( coupon == ‘Y’ )

coupon = toupper( coupon)

Y

return single\_tickets\_cost

return

return

Passed in:

single\_tickets\_sold,

single\_tickets\_cost,

ticket\_name,

user\_name

disp\_purchase

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

Passed in:

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

disp\_final\_report

Display user\_name, ticket\_name, single\_tickets\_sold, single\_tickets\_cost