



Pseudocode – Tasks 2 & 3

```
bookingNum = 0
```

```
continueFlag = TRUE
```

```
WHILE continueFlag = TRUE
```

```
    ticketType = 0
```

```
    numPeople = 0
```

```
    numAdults = 0
```

```
    numChildren = -1
```

```
    numChildrenTickets = -1
```

```
    numSeniors = 0
```

```
    numFamily = 0
```

```
    numGroup = 0
```

```
    numPenguin = 0
```

```
    numLion = 0
```

```
    numBBQ = 0
```

```
    dayChoice = 0
```

```
    extraChoice = 1
```

```
    dayChoice = 0
```

```
    totalPrice = 0.00
```

```
    individual = 2
```

```
    proceed = "1"
```

```
    bookingNum = bookingNum + 1
```

```
    OUTPUT ""
```

```
    WHILE dayChoice < 1 OR dayChoice > 7
```

```
        OUTPUT "Please enter the day of visit from available days shown (1-7): "
```

```
        INPUT dayChoice
```

```
        IF dayChoice < 1 OR dayChoice > 7 THEN
```

```
            OUTPUT "ERROR: Please enter a valid day from the days shown above (1-7)."
```

```
        END IF
```

```
    ENDWHILE
```





Pseudocode – Tasks 2 & 3

```
OUTPUT "Please enter the number of adults visiting: "
```

```
INPUT numAdults
```

```
WHILE numChildren > (numAdults * 2) or numChildren = -1
```

```
    OUTPUT "Please enter the number of children visiting: "
```

```
    INPUT numChildren
```

```
    IF numChildren > (numAdults * 2) THEN
```

```
        OUTPUT "ERROR: Maximum 2 children allowed per adults."
```

```
    ENDIF
```

```
ENDWHILE
```

```
OUTPUT "Please enter the number of seniors visiting: "
```

```
INPUT numSeniors
```

```
WHILE ticketType <> 1 AND TicketType <> 2
```

```
    OUTPUT "Please enter your ticket type (One-Day: enter 1, Two-Day:  
           enter 2): "
```

```
    INPUT ticketType
```

```
    IF ticketType <> 1 AND ticketType <> 2 THEN
```

```
        OUTPUT "ERROR: Please enter a valid ticket type."
```

```
    ENDIF
```

```
ENDWHILE
```





Pseudocode – Tasks 2 & 3

```
WHILE individual < 0 OR individual > 1

    OUTPUT "Would you like to make individual bookings? (Yes - 1, No - 0): "

    INPUT individual

    IF individual < 0 OR individual > 1 THEN

        OUTPUT "ERROR: Please enter a valid input (Yes - 1, No - 0)."
```





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```
OUTPUT "Please enter the number of Family tickets you wish to
purchase:"

INPUT numFamily

OUTPUT "Please enter the number of Group tickets you wish to
purchase: "

INPUT numGroup

ENDIF

numPeople = numAdults + numChildren + numSeniors

IF ticketType = 1 THEN

    totalPrice = (numAdults * ticketPricesOneDay[1]) +
                (numChildren * ticketPricesOneDay[2]) +
                (numSeniors * ticketPriceOneDay[3]) +
                (numFamily * ticketPriceOneDay[4]) +
                (numGroup * ticketPriceOneDay[5])

ELSE

    totalPrice = (numAdults * ticketPricesTwoDays[1]) +
                (numChildren * ticketPricesTwoDays[2]) +
                (numSeniors * ticketPricesTwoDays[3]) +
                (numFamily * ticketPricesTwoDays[4]) +
                (numGroup * ticketPricesTwoDays[5])

ENDIF

OUTPUT "Would you like to book an extra attraction? (Yes - 1, No - 0): "

INPUT extraChoice

IF extraChoice = 1 THEN

    OUTPUT "Please enter the number of tickets for Lion Feeding: "

    INPUT numLions

    OUTPUT "Please enter the number of tickets for Penguin Feeding: "
```





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```
INPUT numPenguin

IF ticketType = 2 THEN

    OUTPUT "Please enter the number of tickets for BBQ: "

    INPUT numBBQ

ELSE

    OUTPUT "BBQ not applicable on one-day tickets."

ENDIF

totalPrice = totalPrice + (numLion * extraAttractionsPrices[1]) +
                    (numPenguin * extraAttractionsPrices[2]) + (numBBQ *
                    extraAttractionsPrices[3])

ENDIF

IF ((numAdults * numSeniors) MOD 2 = 0) AND (numChildren MOD 3 = 0) AND
    (numChildren = (2/3) * (numAdults + numSeniors)) THEN

    bestOption = ticketTypes[4]

ELSEIF numPeople >= 6 THEN

    bestOption = ticketTypes[5]

ELSE

    bestOption = "Individual"

ENDIF

IF (bestOption = "Individual" AND individual <> 1) OR (bestOption =
    ticketTypes[5] AND numGroup = 0) OR (bestOption = ticketTypes[4] AND
    numFamily = 0) THEN

    OUTPUT "The ticket options chosen are not the best value."

    IF bestOption = "Individual" THEN

        OUTPUT "The best value option is: Individual Ticket(s)"

    ELSEIF bestOption = ticketTypes[5] THEN
```





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```
        OUTPUT "The best value option is: Group Ticket")

    ELSEIF bestOption = ticketTypes[4] THEN

        OUTPUT "The best value option is: Family Ticket(s)"

    ENDIF

    OUTPUT "Would you like to proceed with your current booking? (1/0)"

    INPUT proceed

ENDIF

IF proceed = 0 THEN

    continueFlag = True

ELSE

    OUTPUT "BOOKING DETAILS"

    OUTPUT "Booking Number:" & bookingNum

    OUTPUT "Day of Visit:" & days[dayChoice]

    IF ticketType = 1 THEN

        IF individual = 1 THEN

            IF numAdults > 0 THEN

                OUTPUT "Ticket: Adult (One Day) | Num of tickets: "
                    & numAdults & " | Price per ticket: " &
                    ticketPricesOneDay[1]

            ENDIF

            If numChildren > 0 THEN

                OUTPUT "Ticket: Child (One Day) | Num of tickets: "
                    & numChildren & " | Price per ticket: " &
                    ticketPricesOneDay[2]

            ENDIF

        ENDIF

    ENDIF
```





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```
If numSeniors > 0 THEN

    OUTPUT "Ticket: Senior (One Day) | Num of tickets: "
        & numSeniors & " | Price per ticket: " &
        ticketPricesOneDay[3]

ENDIF

ELSE

    If numFamily > 0 THEN

        OUTPUT "Ticket: Family [2 Adults/Seniors + 3
            Children] (One Day) | Num of tickets: "
            & numFamily & " | Price per ticket: " &
            ticketPricesOneDay[4]

        ENDIF

    If numGroup > 0 THEN

        OUTPUT "Ticket: Group [2 Adults/Seniors + 3
            Children] (One Day) | Num of tickets: "
            & numGroup & " | Price per ticket: " &
            ticketPricesOneDay[5]

        ENDIF

    ENDIF

ELSE // if (ticketType = 2)

    IF individual = 1 THEN

        IF numAdults > 0 THEN

            OUTPUT "Ticket: Adult (Two Days) | Num of tickets: "
                & numAdults & " | Price per ticket: " &
                ticketPricesTwoDays[1]

            ENDIF

        If numChildren > 0 THEN

            OUTPUT "Ticket: Child (Two Days) | Num of tickets: "
                & numChildren & " | Price per ticket: " &
                ticketPricesTwoDays [2]

            ENDIF

        ENDIF

    ENDIF

ENDIF
```





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```
If numSeniors > 0 THEN

    OUTPUT "Ticket: Senior (Two Days) | Num of tickets: "
        & numSeniors & " | Price per ticket: " &
        ticketPricesTwoDays[3]

ENDIF

ELSE

    If numFamily > 0 THEN

        OUTPUT "Ticket: Family [2 Adults/Seniors + 3
            Children] (Two Days) | Num of tickets: "
            & numFamily & " | Price per ticket: " &
            ticketPricesTwoDays[4]

        ENDIF

    If numGroup > 0 THEN

        OUTPUT "Ticket: Group [2 Adults/Seniors + 3
            Children] (Two Days) | Num of tickets: "
            & numGroup & " | Price per ticket: " &
            ticketPricesTwoDays[5]

        ENDIF

    ENDIF

ENDIF

IF numLion > 0 THEN

    OUTPUT "Extra Attraction: Lion Feeding | Price Per Person: $"
        & extraAttractionPrices[1]

ENDIF

IF numPenguin > 0 THEN

    OUTPUT "Extra Attraction: Penguin Feeding | Price Per Person:
        $" & extraAttractionPrices[2]

ENDIF
```





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```
IF numBBQ > 0 THEN
```

```
    OUTPUT "Extra Attraction: Evening Barbeque | Price Per Person:  
    $" & extraAttractionPrices[3]
```

```
ENDIF
```

```
OUTPUT "Total Cost: $" & totalPrice
```

```
WHILE continueFlag <> 1 AND continueFlag <> 0
```

```
    OUTPUT "Would you like to make another booking? (1/0):"
```

```
    INPUT continueFlag
```

```
IF continueFlag <> 1 AND continueFlag <> 0 THEN
```

```
    OUTPUT "ERROR: Please enter a valid response (1/0)."
```

```
ENDIF
```

```
ENDWHILE
```

```
ENDIF
```

```
ENDWHILE
```

