

# CHRISTMAS SWEEPSTAKES SOFTWARE

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SARAH WATHKE



# PURPOSE OF THE SOFTWARE

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- The Christmas Sweepstakes Software allows a user to run the program and find out which of four randomly chosen vacations they will win. Upon finding out, the user can enter a number between 1 and 5 stating how many people, including him/her, will be going.
- The program will then give the user some insight as to what the retail value of that vacation package is as well as some details as to what they can expect of their vacation.

# SOFTWARE DESIGN

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- Function to display the opening message
- A while loop to allow the user to exit if desired
- A system pause is implemented so that the user does not immediately see what they have won
- A variable to hold a randomly selected value to designate a vacation destination is created
- A variable is created to hold the number of people attending the vacation
- Two functions to be created: one which will display which vacation was chosen (using a switch statement relating the random number to a vacation) and another that will take in the number of people attending.
- This second function will then use a while loop to ensure that the user has entered a valid number (1-5) as they are only allowed to bring four guests with them
- The vacation selection value is passed into this function so that if-statements can be used to call on the individual functions of each destination. The vacation functions will have details relating to each potential grouping (1 guest, 2 guests, 3 guests, etc...) These details will then be shown to the user so they can have a simple and general idea of what they can expect from their prize.

# STATE DIAGRAM

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