|  |  |  |  |
| --- | --- | --- | --- |
| **Func Name** | **Description of Function** | **Parameter List** | **Return Data** |
| addMore | This will decide what to do based on the user's input and calls placement() for placement of the add-on. This will loop if the user wants to keep adding the same type of design. It will, however, stop once all spaces for the desired add-on have been occupied. | ***cAdd*** - the letter of the desired add-on  ***pAdd\_Layout*** - the address of the string which contains the add-ons and their positions |  |
| addOns | Main function of the Add-Ons part | ***pLayout*** - the string which contains the add-ons and their positions |  |
| breakdown | This break down the change into smaller denominations. | ***fChange*** - the change of the user |  |
| checkForPickups | This checks if there are available orders for pickup for the day. | ***nDay*** - the current day. |  |
| checkLayout | Checks if there are still available slots for add-ons by scanning each character of the string. This will decide which positions to check for based on the parameter. | ***cSelectedOpt*** - is the letter of the add-on the user wants to add  ***pLayout*** - the address of the string containing the layout | Returns 1 or 0 to signify true or false, respectively |
| checkPosition | This checks to see if the desired position is occupied. | ***cAdd -*** the letter of the desired add on.  ***nPosition -*** the desired placement of the add on. (relative to the string)  ***pAdd\_Layout*** - the address of the sLayout string | returns 0 or other values to signify false or true, respectively |
| checkYorN | Checks input for yes or no questions, loops if invalid statement. | ***question*** - the question to be asked. | returns the capitalized Y or N |
| chooseAddOn | Displays the add-on options and checks the user's input will loop if the input is invalid. |  | returns the capitalized letter of the add-on of choice |
| chooseNeck | Displays the options for neckline types and takes the first letter of the desired choice. |  | returns the capitalized letter of the desired neckline |
| chooseQuantity | Asks for the quantity of shirts. |  | returns the valid quantity of shirts |
| chooseSize | Displays the options for shirt sizes and takes the first letter of the desired size. |  | returns the capitalized letter of the desired size |
| computeAndDisplayPrice | Computes and displays the price of each add on | ***nQuan*** - the quantity of shirts ordered  ***cSize*** - the letter of the chosen size  ***pTotalPrice*** - the address of the total price  ***pLayou***t - the address of the sLayout string |  |
| computeAndDisplayTime | Computes for the production time and outputs both the time and the pickup date | ***nQuan*** - the quantity of shirts ordered  ***pLayout*** - the address of the sLayout string  ***pTimeLeft*** - the address of the variable for time remaining to finish the previous orders | returns the number of days to produce the order |
| logoColor | Takes the input of the user that indicates the number of colors in the logo and will loop if the input is invalid. |  | returns the number of colors the logo has |
| makeShirt | Outputs the mock t-shirt by determining the dimensions of the shirt and loops while calling printShirtColumn() for each column in a row | ***cSize*** - the letter to represent the size of the shirt  ***cNeck*** - the letter to represent the neckline of the shirt  ***pLayout*** - the address of the sLayout string  ***pShirt*** - the address of the aShirt 2-D array |  |
| makeShirtColumn | Prints each column differently depending on the row number. | ***row*** - the current row number  ***nLength*** - the height of the shirt  ***nWidth*** - the width of the shirt  ***nShoulder*** - the shoulder width of the shirt  ***cNeck*** - the letter of the chosen neckline of the shirt  ***pShirt*** - the address of the aShirt 2-D array |  |
| order | Main function for ordering | ***pDay\_Quantity*** - address of the total shirts sold for the day  ***pDay\_Revenue*** - address of the total revenue for the day  ***nDay*** - the current day of ordering.  ***pTime\_Left*** - the address of the time left to process the previous orders  ***pOrder\_Number*** - the address of the order number to be assigned to the current order |  |
| paymentAndChange | Asks the user for the payment. If the input is less that the total price, the function loops. | ***fTotal\_Price*** - is the total price of the order |  |
| placement | Displays the placement options to the user and will attempt to place the desired add-on to the desired position. | ***cAdd*** - the letter of the wanted add-on  ***pAdd\_Layout*** - the address of the string which contains the add-ons and their positions |  |
| printDash | Displays dashes when called. |  |  |
| printIntro | Displays the introduction of the program. |  |  |
| printMainMenu | This displays the main menu and asks the user to choose a menu option. It will loop if the input is invalid. |  | returns the valid selected menu option of the user |
| printOrderMenu | This displays the order menu and asks the user to choose a menu option. It will loop if the input is invalid. |  | returns the valid order option of the user. |
| printPosition | Prints the text of the position of each design on the receipt based on its order in the sLayout string. | ***nPosition*** – the number that signifies the current position in the sLayout string. |  |
| printReceipt | Prints the receipt | ***nQuantity*** - the quantity of shirts ordered  ***cSize*** - the letter of the chosen size  ***cNeck*** - the letter of the chosen neckline  ***pTotal\_Price*** - the address of the total price for the order  ***pAdd\_Layout*** - the address of the sLayout string  ***pShirt*** - the address of the aShirt 2-D array  ***pT***i***me\_Left*** - the address of the variable for time remaining to finish the previous orders | returns the number of days to produce the order |
| saveOrder | This saves the order to a text file. | ***nQuan*** - the quantity of the shirts  ***nPickup\_Day*** - the assigned day of pickup  ***cSize*** - the character of the chosen size  ***cNeck*** - the character of the chosen neckline  ***pOrder\_Number*** - the address of the order number that will be assigned to it |  |