

## 23748310

Date: 10/7/2023 6:00:15 PM

**Duration:** 0:50:57

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#### Kyle

[0:00:00] How do I use reference parameters to return the customerNames and customerCarColors arrays from addNewOrder() function into main()? [ File > https://lhh.tutor.com/SharedSessionFiles/737d7488-52be-4e37-bb2b-aae30208f958\_M06\_Part\_A\_Programming\_Assignment\_2.txt ]

## Calvin F (Tutor)

[0:00:12] Welcome! I hope you're doing well.

# Whiteboard 1

# C-Like Editor 1

## Calvin F (Tutor)

 $\left[0.01.40\right]$  let me take a look at your code and see if I can help you with that question.

# C-Like Editor 2

# C-Like Editor 1

Calvin F (Tutor)

[0:06:12] Can you explain the addNewOrder function parameters to me?

#### Calvin F (Tutor)

[0:08:22] Arrays do not need to be explicitly passed as references, they're already passed as pointers.

## Kyle

[0:08:33] I tried to input customerNames and customerCarColors as a normal array for the function to do it's work upon. names and colors arrays are my attempt at making reference parameters that I could reference outside of the addNewOrder function with main() and quit()

#### Kyle

[0:10:02] Basically, you can only return one thing out of a value returning function, so I initialized addNewOrder() as void so I could try to pass the arrays as reference parameters outside the function.

## Calvin F (Tutor)

[0:11:41] Arrays can be changed inside void functions just by calling them, yes?

#### **Kyle**

[0:13:18] You can change array's values inside of the void function, the problem is returning those changes to the main function when multiple arrays are being changed at the same time.

#### Calvin F (Tutor)

[0:14:04] What issue are you running into specifically?

#### Calvin F (Tutor)

[0:14:41] Multiple arrays should be able to change and be called into the same function.

#### **Kyle**

[0:16:03] Whenever I try to initialize the reference arrays, I get lots of error messages telling me that I can't initialize them with normal arrays or elements of arrays.

#### Calvin F (Tutor)

[0:16:45] Initializing them in the main or in the function?

#### **Kyle**

[0:16:45] Severity Code Description Project File Line Suppression State

Error C2664 'void addNewOrder(std::string [],carColorType [][3],std::string (&)[],carColorType (&)[][3])': cannot convert argument 3 from 'std::string' to 'std::string (&)[]' M06\_Part\_A\_Programming\_Assignment\_2 C:\Users\spect\source\repos \M06\_Part\_A\_Programming\_Assignment\_2\M06\_Part\_A\_Programming\_Assignment\_2 \M06\_Part\_A\_Programming\_Assignment\_2.cpp 80

#### **Kyle**

[0:17:38] I've tried initializing them in the main, although I might need to initialize them in the function.

#### Calvin F (Tutor)

[0:18:10] Go ahead and remove the (&names)[] and (&colors)[][3]

#### Calvin F (Tutor)

[0:18:40]

void addNewOrder(string customerNames[], carColorType customerCarColors[][3]);

#### Calvin F (Tutor)

[0:23:25] If you're running into an issue adding the data, I would double check the logic of the code you're using to add it.

## Calvin F (Tutor)

[0:23:39] The current way you're doing things should work.

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## Calvin F (Tutor)

[0:25:53] If you're not sure how many customers you're going to have before you run the code, you should also be using dynamic memory for these arrays as well.

## Calvin F (Tutor)

[0:26:40] string\* customerNames = new string[customerCount]; carColorType (\*customerCarColors)[3] = new carColorType[customerCount][3];

#### Calvin F (Tutor)

[0:26:54] this is how you can build the arrays with dynamic memory instead.

#### Kyle

[0:28:44] I know that the number of customers I will have will be up to 10 customers, which is why it is initialized at 10.

#### Calvin F (Tutor)

[0:28:51] Gotchya.

#### Kyle

[0:34:11] To summarize, what I am trying to do is to take customerNames and customerCarColors into the void addNewOrder function. I then input the customer name into the customerNames array and the body, top, and trim colors into a parallel two dimensional array called customerCarColors and input those 3 values into the 2nd index. From there, the part I am having trouble with is to then get customerNames and customerCarColors out of the addNewOrder() function and into the main() function and then as input to quit() function. I cannot just return the values, since you can only return 1 value out of a value returning function. I need to get two whole arrays out of the function.

#### Calvin F (Tutor)

[0:36:33] Once the addNewOrder function is complete and it returns to main, customerNames and customerCarColors should be populated with a new order.

#### Calvin F (Tutor)

[0:36:42] There is no need to return anything with addNewOrder

#### Calvin F (Tutor)

[0:36:51] Access the members of the array you declared in main

#### Calvin F (Tutor)

[0:38:02] your "readExistingOrders" function is likely the problem here if that's where you're stuck.

#### **Kyle**

[0:39:55] I'm not stuck with the readExistingOrders function, I am stuck at the addNewOrder function. readExistingOrders works fine.

#### Calvin F (Tutor)

[0:40:31] Are you trying to get addNewOrder to write to the file that readExistingOrder reads from?

## **Kyle**

[0:41:14] It could be that calling main function right after addNewOrder is resetting the main function, resetting the array

#### Calvin F (Tutor)

[0:42:22] Generally it's bad practice to recursively call the main function, yes.

#### Calvin F (Tutor)

[0:42:41] Actually, yes. Recalling your main function would redeclare your arrays as empty.

#### Calvin F (Tutor)

[0:44:03] You could declare the arrays globally, or use a goto to jump back to a higher point in main before their declaration.

#### Calvin F (Tutor)

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[0:44:42] on line 28 I put a jumping: goto point

## Calvin F (Tutor)

[0:45:02] every time you call main, instead do goto jumping;

## Calvin F (Tutor)

[0:45:08] goto jumping;

## Calvin F (Tutor)

[0:46:32] so that would be line 65 and 74

## **Kyle**

[0:48:34] It worked!

#### Kyle

[0:48:40] Thank you so much!

## Calvin F (Tutor)

[0:48:41] Awesome!

## Kyle

[0:48:53] Goodbye.

## Calvin F (Tutor)

[0:48:59] Have a good day!

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# C-Like Editor 1