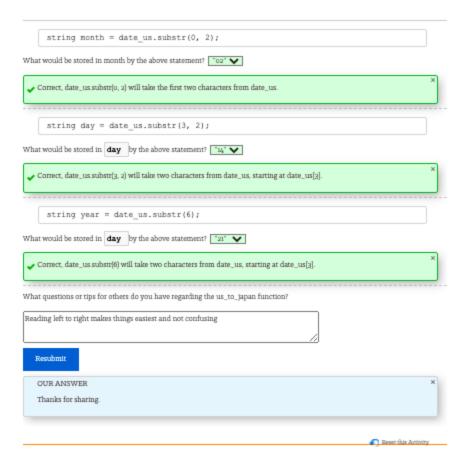
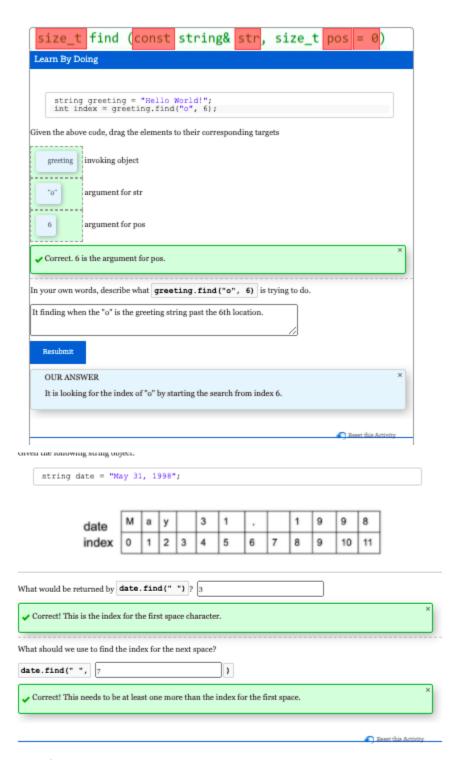


Complete the following to return the area number of the Social Security Number collected: ssn.substr(o Correct! The first parameter expects the index of the starting character. 0 is the index for the first character in a string. Given the following initialization: string date = "1998-05-15"; //YYYY-NM-DD date index The indices for the characters in date Complete the following to return the year portion of date: date.substr(0, 4 Correct! This will return the first four characters. Complete the following to return the month portion of the date: date.substr(5 2) Correct! This should be the index after the first -. Complete the following to return the day portion of the date? date.substr(8 ✓ Correct! In your own words, explain why it is okay to have only one argument when trying to figure out the day portion of the date in the last question. Because the day portion is the last of the string data





-

- 1. Click on this link to access the program with the above steps.
- 2. Run the program and use web@csusm.edu as the input for the email address.
- 3. Run the program with a few other email addresses of your choice.

In your own words, describe why the program works for some email addresses but not others.

It takes from after the 4th position

Resubmit

OUR ANSWER

The program always considers the first three characters as the user name but not all email addresses have their user names as three letters.

To make the program work for all possible email addresses, we need to update this statement.

```
donain_name = email_address.substr(4);
```

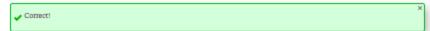
Instead of always taking the substring starting at index 4, we want to take all characters after the @ sign.

Therefore, the key is to find out where the @ sign is in an email address. We can use the **find** method for that and store the result in a variable.

```
size_t index_at = email_address.find("0");
```

Let's use "web@csusm.edu" as the value of enail_address and answer the following questions to figure out how we can use index_at to help us retrieve the user name and domain name.

What would be stored in index_at after the above statement? 3



Which of the following would store "csusm.edu" into domain_name ?

- domain_name = email_adress(index_at 1);
- domain_name = email_adress(index_at);
- domain_name = email_adress(index_at + 1);

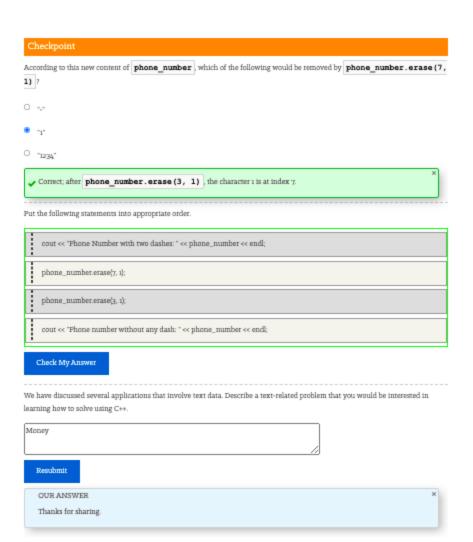
Correct; the index of a character is the same as the number of characters before it. The index for \otimes is the same as the number of characters before \otimes .

Use the above changes we made to update the program you visited earlier so that it will work for any valid email addresses

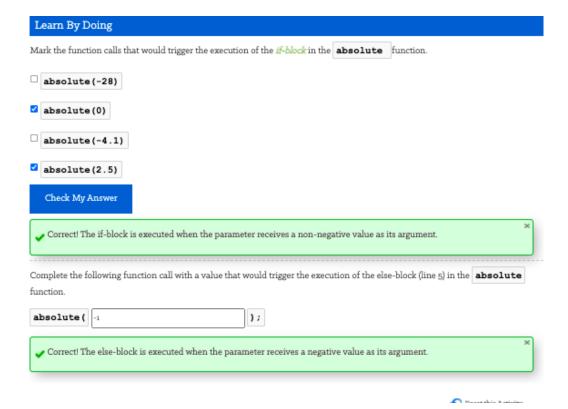
What questions or tips for others do you have about applying the same approach to complete a function that returns the username portion of an email address?

```
string get username(string email_address) (
  return "THD";
)
```

Be careful and specific to what position you want to start at to take of the username portion of an email.



Use the above ASCII values to evaluate the following comparisons and choose the right Bool value resulted from
each comparison.
,), > ,(,
* true
- false
Correct. The Unicode for [1] (41) is larger than the Unicode for [1] (40)
-+1 > 101
true true
* false
✓ Currect. The ASCII value for [*8*] (48) is larger than the ASCII value for [*4*] (45)
181 < 191
■ trus
□ false
Z < W
× trail
□ false
✓ Currect. The ASCII value for [12.1] (30) is smaller than the ASCII value for [14.1] (100)
W le W
■ true
□ tales
✓ Currect. Characters are case sensitive.
T>+Y
* false
□ true
$\label{eq:current} $
'M' <= 'ta'
■ trae
□ tales
✓ Currect. The Unicode for "M" (77) is being compared to the Unicode for "m" (109).
A course of the contract of th



Learn By Doing Mark all of the following function calls that would trigger the if-block of the function body of final_cost to be executed: final_cost(55) ☐ final_cost(45) ✓ final_cost(50) Check My Answer Correct, the if-blocked is executed whenever the purchase parameter takes on an argument that is 50 or more. int get boxes(int cupcakes, int box_size) { int boxes = cupcakes / box_size; int leftover = cupcakes % box_size; if (conditional expression_) (boxes = boxes + 1; return boxes; The above get_boxes function is designed to help determine the number of boxes needed to pack an order of cupcakes. It takes two parameters. The first one is the number of cupcakes ordered and the second one is the number of cupcakes each box can hold. Enter a number in the following function call that would trigger the if-block in the function body to be executed: leftover > 0 💙 Correct, we only need one more box when the number of cupcakes are not divisible by the box size. Mark all of the following function calls that would trigger the if-block of the function body of get_boxes to be executed: get_boxes(8, 5) get_boxes(10, 4) ☐ get_boxes(10, 5) ☐ get_boxes(8, 4) Check My Answer

Correct, the if-blocked is executed whenever the argument for the cupcakes parameter is not divisible by the

Describe a scenario when extra action is needed only when a certain condition is met.

argument for the box_size parameter.

Buying groceries

before the sum is compared to 4. That is, 2 + 3 < 4 is equivalent to (2 + 3) < 4.

Learn By Doing

Mark all comparisons that will result in true.

□ 5 <= 2 * 3

□ 5 >= 2 * 3

□ 5 >= 2 * 3

□ 5 <= 2 * 3

□ 5 <= 2 * 3

□ 6 >= 2 * 3

□ 7 >= 2 * 3

□ 8 >= 2 * 3

□ 8 >= 2 * 3

□ 9 >= 2 * 3

□ 10 >= 2 * 3

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□ 1

□4+3>=8

Check My Answer

 ✓ Correct! 8 is not equal to 7. It is more than 7, which also means >=7