There are two standard methods to sort a list in Python, sort and sorted. What is the difference between these two methods?



sort returns a new list, while sorted returns the same list reorganized.



sort lists alphabetically, while sorted lists by word length.



sorted returns a new list, while sort returns the same list reorganized.

**Correct**

Awesome! So you were paying attention. Knowing the difference between these two methods is not nearly as important as the ability to research the tools we have available to us.

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It’s important to know why we’ve written a function. In the example used in the video (shown here), what is the purpose of “if len(users) > 0:” ?

def generate\_report(machines):

  for machine, users in machines.items():

    if len(users) > 0:

      user\_list = ", ".join(users)

      print("{}: {}".format(machine, user\_list))



Ensure that we don't print any machines where nobody is currently logged in

**Correct**

Awesome! Generating the string underneath this check prevents lists with zero users from being printed.

Ensure that we don't print any machines where nobody is currently logged in

is selected.This is correct.

Awesome! Generating the string underneath this check prevents lists with zero users from being printed.



Generates a string of logged-in users for a given machine

**Un-selected is correct**

Generates a string of logged-in users for a given machine

is not selected.This is correct.



Sorts the list of users

**Un-selected is correct**

Sorts the list of users

is not selected.This is correct.



 Iterate over the keys and values in the dictionary

**Un-selected is correct**

Which line from the program we just wrote combines each logged-in user attribute into one variable?



events.sort(key=get\_event\_date)



self.user = user



user\_list = ", ".join(users)

**Correct**

Nice job! The join() function of str gathers the user attributes (which is a string) into a single string, with commas separating the users.

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machines[event.machine].add(event.user)