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"""
CP1404/CP5632 Practical
Demo of sorting lists of 'compound' values
"""

from operator import itemgetter

names_with_ages = [['Derek', 7], ['Carrie', 8], ['Bob', 6], ['Aaron', 9]]

# This sorts by the first value (name) in the element
names_with_ages.sort()
print(names_with_ages)

# This tells sort() to use the second (index 1, age) value in the element
names_with_ages.sort(key=itemgetter(1))
print(names_with_ages)

data = [['Derek', 7], ['Carrie', 7], ['Bob', 6], ['Aaron', 6]]
# This tells sort() to use the second (index 1) value...
# then the first (index 0) in the element
data.sort(key=itemgetter(1, 0))
print(data)

# TODO: sort the following list of tuples by last name then first name
items = [('123', 'Derek', 'Smith', 7), ('124', 'Carrie', 'Brown', 7),
          ('125', 'Bob', 'Smith', 6), ('126', 'Aaron', 'Hewitt', 6)]
# ??
print(items)

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