```
# shopSmart.py
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# solutions, (2) you retain this notice, and (3) you provide clear
{\it \# attribution to UC Berkeley, including a link to http://ai.berkeley.edu.}
# Attribution Information: The Pacman AI projects were developed at UC Berkeley.
\ensuremath{\text{\#}} The core projects and autograders were primarily created by John DeNero
# (denero@cs.berkeley.edu) and Dan Klein (klein@cs.berkeley.edu).
# Student side autograding was added by Brad Miller, Nick Hay, and
# Pieter Abbeel (pabbeel@cs.berkeley.edu).
Here's the intended output of this script, once you fill it in:
Welcome to shop1 fruit shop
Welcome to shop2 fruit shop
For orders: [('apples', 1.0), ('oranges', 3.0)] best shop is shop1
For orders: [('apples', 3.0)] best shop is shop2
from __future__ import print_function
import shop
def shopSmart(orderList, fruitShops):
        orderList: List of (fruit, numPound) tuples
    cheapest price = float('inf')
    cheapest option = None
    for shop in fruitShops:
        price = shop.getPriceOfOrder(orderList)
        if price < cheapest_price:</pre>
           cheapest_price = price
            cheapest option = shop
    return cheapest_option
if __name__ == '__main__':
    "This code runs when you invoke the script from the command line"
    orders = [('apples', 1.0), ('oranges', 3.0)]
    dir1 = {'apples': 2.0, 'oranges': 1.0}
    shop1 = shop.FruitShop('shop1', dir1)
    dir2 = {'apples': 1.0, 'oranges': 5.0}
    shop2 = shop.FruitShop('shop2', dir2)
    shops = [shop1, shop2]
    print("For orders ", orders, ", the best shop is", shopSmart(orders, shops).getName())
    orders = [('apples', 3.0)]
    print("For orders: ", orders, ", the best shop is", shopSmart(orders, shops).getName())
```