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# shopSmart.py
# -----
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# attribution to UC Berkeley, including a link to
# http://inst.eecs.berkeley.edu/~cs188/pacman/pacman.html
#
# Attribution Information: The Pacman AI projects were developed at UC
Berkeley.
# The core projects and autograders were primarily created by John
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# (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).

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"""

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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
"""

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import shop

```

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def shopSmart(orderList, fruitShops):
    """

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```

        orderList: List of (fruit, numPound) tuples
        fruitShops: List of FruitShops
    """
    minimumCost=fruitShops[0].getPriceOfOrder(orderList)
    best=fruitShops[0]
    for shop1 in fruitShops:
        temp=shop1.getPriceOfOrder(orderList)
        if minimumCost>temp:
            minimumCost=temp
            best=shop1
    return best

```

```

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()
```