CS 51P – Fall 2023
Lecture 17

1. Define a function `under_price(grocery_store, p)` that takes two parameters, a dictionary `grocery_store` and a price `p`, and returns the number of unique items available for less than (or equal to) price `p`.

2. Define a function `compute_cost` that takes two arguments, a dictionary `prices` and list of items `shopping_list` and returns the total cost of buying all the items on the shopping list. If an item on the shopping list is not in the prices dictionary, just exclude it from the total cost.

3. Consider the following program:

```python
def mystery(my_dict):
    d = {}
    for i in my_dict.keys():
        if my_dict[i] in d:
            d[my_dict[i]].append(i)
        else:
            d[my_dict[i]] = [i]
    return d

def main():
    d = {"a":1, "b":2, "c":1, "d":0, "e":2}
    print(mystery(d))

main()
```

What gets printed when this program is run?