Solution Review: Increment Dictionary Values

This lesson will explain how to increment values in a dictionary.

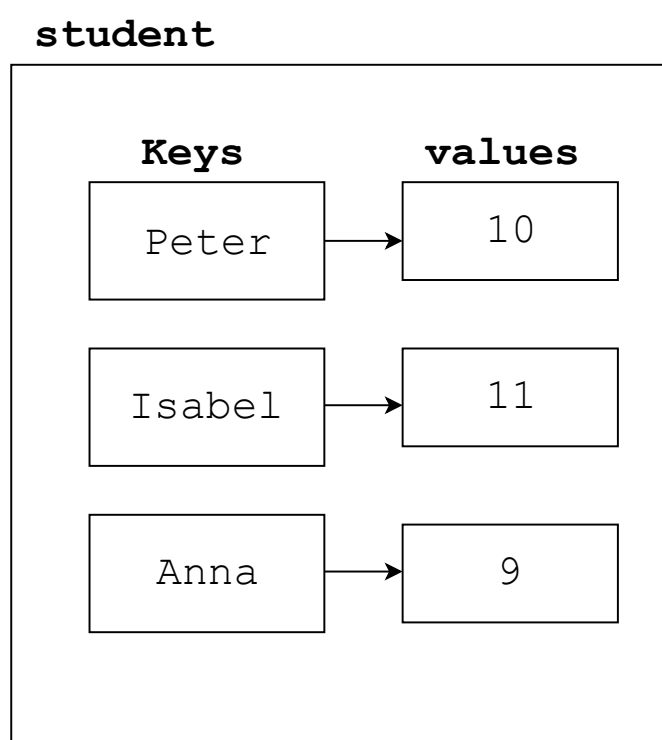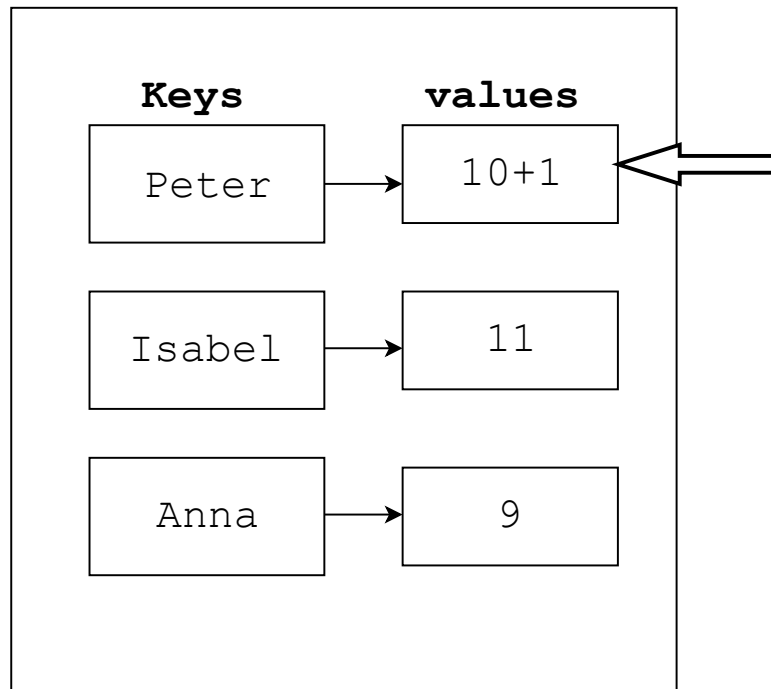## Solution: Loop Over the Dictionary and Increment Value #

Use a for loop to iterate over the length of the dictionary, incrementing the value of age in the dictionary with a number `n` and then saving the value in a new dictionary.

The following illustration explains the concept of iterating the values of a dictionary containing only 3 students.
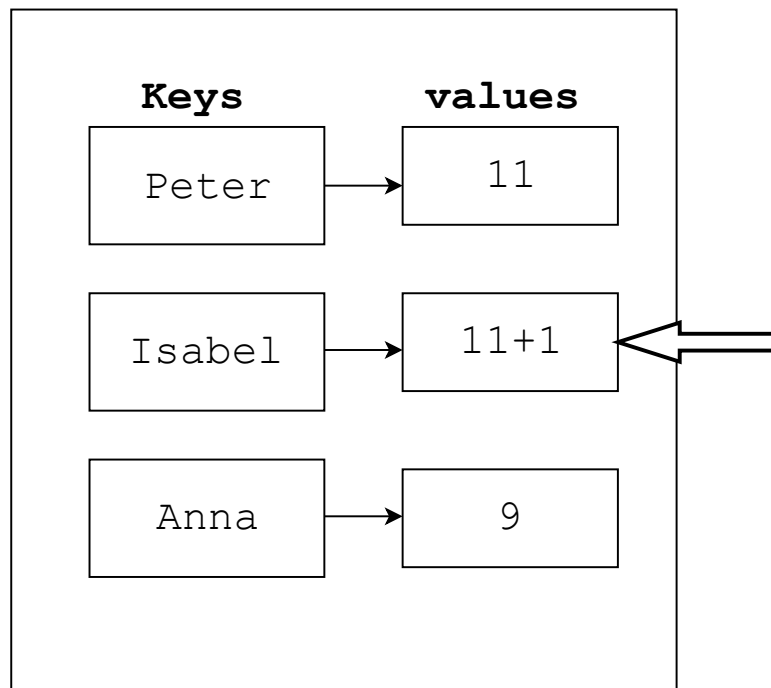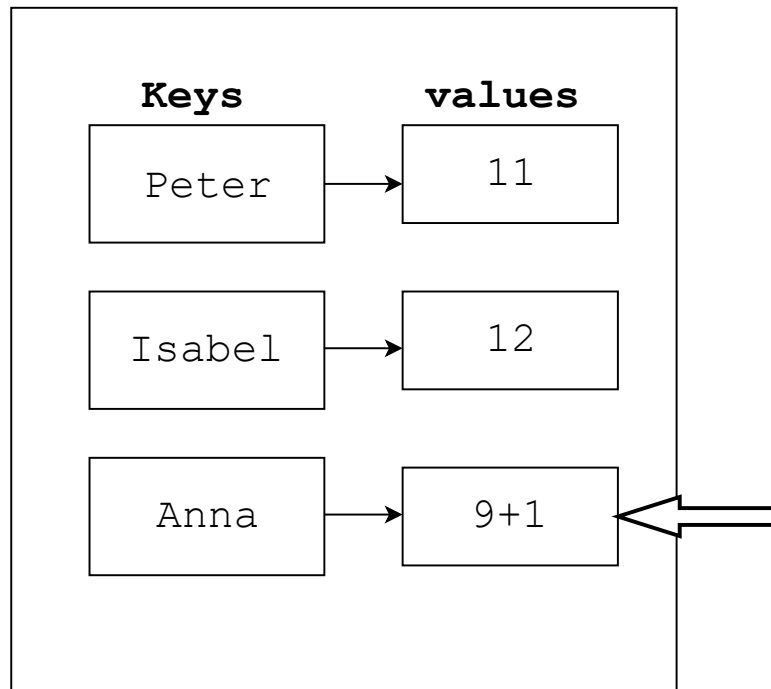
student

Keys values

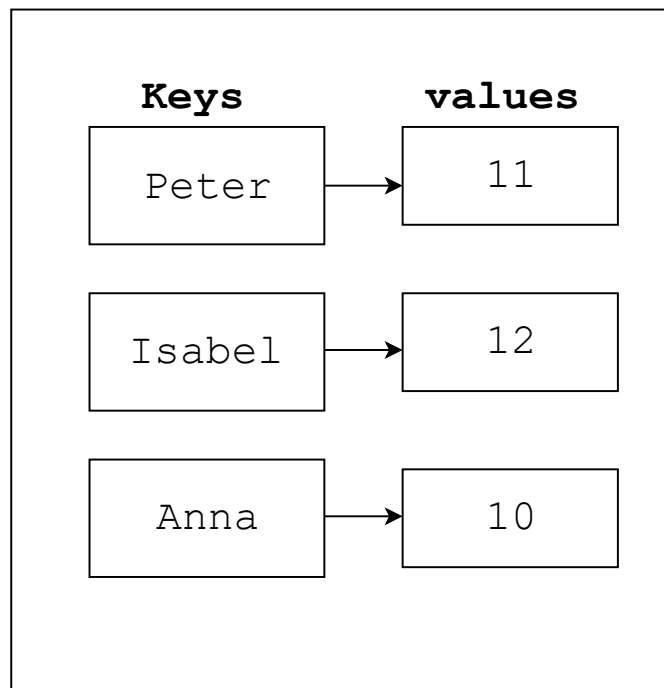Peter → 10+1 ⟸

Isabel → 11

Anna → 9

student

Keys values

Peter → 11

Isabel → 11+1 ⟸

Anna → 9

student

Keys	values
Peter	11
Isabel	12
Anna	9+1

student

Keys	values
Peter	11
Isabel	12
Anna	10

The following python code demonstrates the concept.

```python
def updateAges(ages, n):
    new_ages = {}
    for word in ages:

        new_ages[word] = ages[word] + n
    return new_ages
ages = {
        "Peter": 10,
        "Isabel": 11,
        "Anna": 9,
        "Thomas": 10,
        "Bob": 10,
        "Joseph": 11,
        "Maria": 12,
        "Gabriel": 10,
    }
new_ages = updateAges(ages, 10)
print(new_ages)
```

Let's move on to the next problem.