Move element pointed by position p to back — Z32206_en

In the `public_files` section of the problem statement, a class called **PositionalList**, which implements the **Positional List ADT** using a doubly-linked list, is defined. Extend the implementation of this class with a new public method **move_to_back(self, p)**. This method moves the element pointed by p to the back of the list instance calling it.
For example, if **t** is an instance of the class `PositionalList` that represents the following *list* and **p** is a valid position pointing to the first element of **t** (i.e. **p** points to `1`),

```
1, 2, 3, 4, 5, 6
```

after executing the statement **t.move_to_back(p)**, the object **t** will represent the *list*

```
2, 3, 4, 5, 6, 1
```

In particular, you should add the following public method to the **PositionalList** class:

```
def move_to_back(self, p):
  """ Moves element pointed by p to the back of the list.
  Pre: p is a valid position for the list calling this method.
       The list is not empty.
  Post: The element pointed by p is moved to the back of the
        list. The rest of the list has not been modified.
  """
```

Sample input 1

```
6
1 2 3 4 5 6
0
```

Sample output 1

```
list t:
1, 2, 3, 4, 5, 6
6, 5, 4, 3, 2, 1
list after moving 0-th element to back, t:
2, 3, 4, 5, 6, 1
1, 6, 5, 4, 3, 2
```

Problem information

Author: Josefina Sierra Santibáñez

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