COMP9021 PRINCIPLES OF PROGRAMMING

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$ python3
>>> from quiz_2 import *
>>> L = []
>>> apply_pattern_to_list(L)
{}
>>> L
[]
>>> L = [1]
>>> apply_pattern_to_list(L)
{}
>>> L
[1]
>>> L = [1, 2, 1, 2, 1, 2, 3]
>>> apply_pattern_to_list(L)
{6: 3}
>>> L
[1, 2, 1, 2, 1, 2]
>>> L = [1, 2, 1, 2, 1, 2, 3]
>>> apply_pattern_to_list(L, from_start=False)
\{-3: 1, -4: 2, -5: 1, -6: 2, -7: 1\}
>>> L
[2, 3]
>>> L = [1, 3, 2, 0, 0, -2, -2, 1, 5, -4]
>>> apply_pattern_to_list(L, '++-')
\{2: 2, 3: 0, 4: 0, 5: -2, 6: -2, 7: 1\}
>>> L
[1, 3, 5, -4]
>>> L = [1, 3, 2, 0, 0, -2, -2, 1, 5, -4]
>>> apply_pattern_to_list(L, '++-', False)
\{-2: 5, -3: 1, -4: -2, -5: -2, -6: 0, -7: 0, -8: 2, -9: 3, -10: 1\}
>>> L
[-4]
>>> L = [-11, -2, -3, 11, -11, -12, 12, -7, 14, -5, 15, -1, 11, -10, 11]
>>> apply_pattern_to_list(L, '---+')
\{1: -2, 2: -3, 3: 11, 4: -11, 6: 12, 7: -7, 8: 14, 9: -5, 10: 15, 11: -1, 12: 11, 13: -10, 14: 11\}
>>> L
[-11, -12]
>>> L = [-11, -2, -3, 11, -11, -12, 12, -7, 14, -5, 15, -1, 11, -10, 11]
>>> apply pattern to list(L, '---+', False)
\{-2: -10, -3: 11, -4: -1, -7: 14, -9: 12, -12: 11, -13: -3, -14: -2, -15: -11\}
>>> L
[-11, -12, -7, -5, 15, 11]
```

Date: Trimester 3, 2024.

```
>>> L = [0, -4, 4, 4, 2, -2, 1, 3, -3, -4, -4, -2, -3, 0, 1, 2, -4, 3, -1, 1]
>>> apply_pattern_to_list(L, '-+')
{3: 4, 5: -2, 6: 1, 9: -4, 10: -4, 14: 1, 15: 2}
>>> L
[0, -4, 4, 2, 3, -3, -2, -3, 0, -4, 3, -1, 1]
>>> L = [0, -4, 4, 4, 2, -2, 1, 3, -3, -4, -4, -2, -3, 0, 1, 2, -4, 3, -1, 1]
>>> apply_pattern_to_list(L, '-+', False)
{-2: -1, -7: 0, -8: -3, -9: -2, -10: -4, -11: -4, -12: -3, -15: -2, -17: 4, -18: 4}
>>> L
[0, -4, 2, 1, 3, 1, 2, -4, 3, 1]
```