

Exercise: Pairs with Sums

Challenge yourself with an exercise in which you'll have to find pairs from a doubly linked list which sum to some number.

WE'LL COVER THE FOLLOWING ^

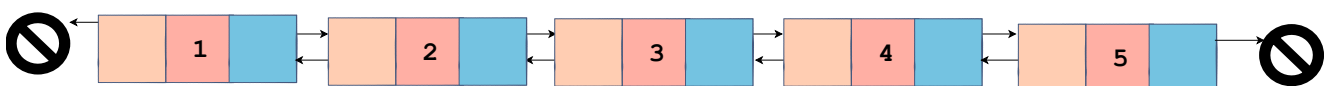
- Problem
- Coding Time!

Problem

In this exercise, you are required to find pairs from a doubly linked list which sum to a specified number.

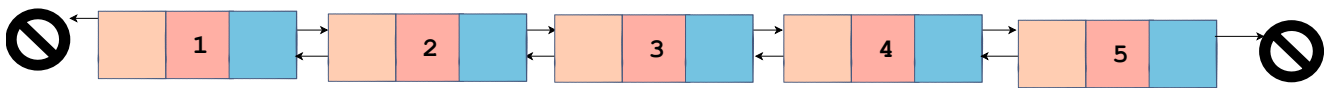
An example is illustrated for you below.

Doubly Linked List: Pairs with Sums



Find pairs which sum up to 5.

Doubly Linked List: Pairs with Sums



(1, 4) (2, 3)

2 of 2

—

[]

Coding Time!

In the code below, `pairs_with_sum` is a class method of the `DoublyLinkedList` class. You cannot see the rest of the code as it is hidden. As `pairs_with_sum` is a class method, please make sure that you don't change the indentation of the code provided to you. You are required to write your solution under the function prototype.

The pairs from `pairs_with_sum` have to follow this condition; for a pair (`a`, `b`), `a` should come before `b` in the doubly linked list while it is traversed from the head node.

For this exercise, you are required to return a **Python list** containing the pairs as string types in the following format:

```
(a,b)
```

For example, the pairs for the linked list shown in the illustration are as follows:

```
["(1,4)", "(2,3)"]
```

Failure to return the answers in the required format will fail the test cases.

Good luck!

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```
def pairs_with_sum(self, sum_val):  
    pass
```

