

Find pairs with given sum in doubly linked list

Difficulty Level : Easy • Last Updated : 27 Nov, 2020

Given a sorted doubly linked list of positive distinct elements, the task is to find pairs in doubly linked list whose sum is equal to given value x , without using any extra space ?

Example:

```
Input : head : 1 <-> 2 <-> 4 <-> 5 <-> 6 <-> 8 <-> 9
          x = 7
Output: (6, 1), (5,2)
```

Expected time complexity is $O(n)$ and auxiliary space is $O(1)$.