

## Report

### Output:

```
PS C:\Users\Yahia\Desktop\code\cpp\assignment 4> cd "c:\Users\Yahia\Desktop\code\cpp\assignment 4\" ; if ($?) { g++ main.cpp -o main } ; if ($?) { .\main }
Enter the number of integers:
7
Enter an integer:
1
Enter an integer:
2
Enter an integer:
3
Enter an integer:
2
Enter an integer:
4
Enter an integer:
2
Enter an integer:
5
Enter the first value: 2
Enter the second value: 10
Modified vector: 1 2 10 3 2 10 4 2 10 5
Linked list:
The value 1 is repeated 1 times
The value 2 is repeated 3 times
The value 10 is repeated 3 times
The value 3 is repeated 1 times
The value 4 is repeated 1 times
The value 5 is repeated 1 times

Sum of all nodes: 49
```

- I created a node struct and implemented the LinkedList class and added the required functions