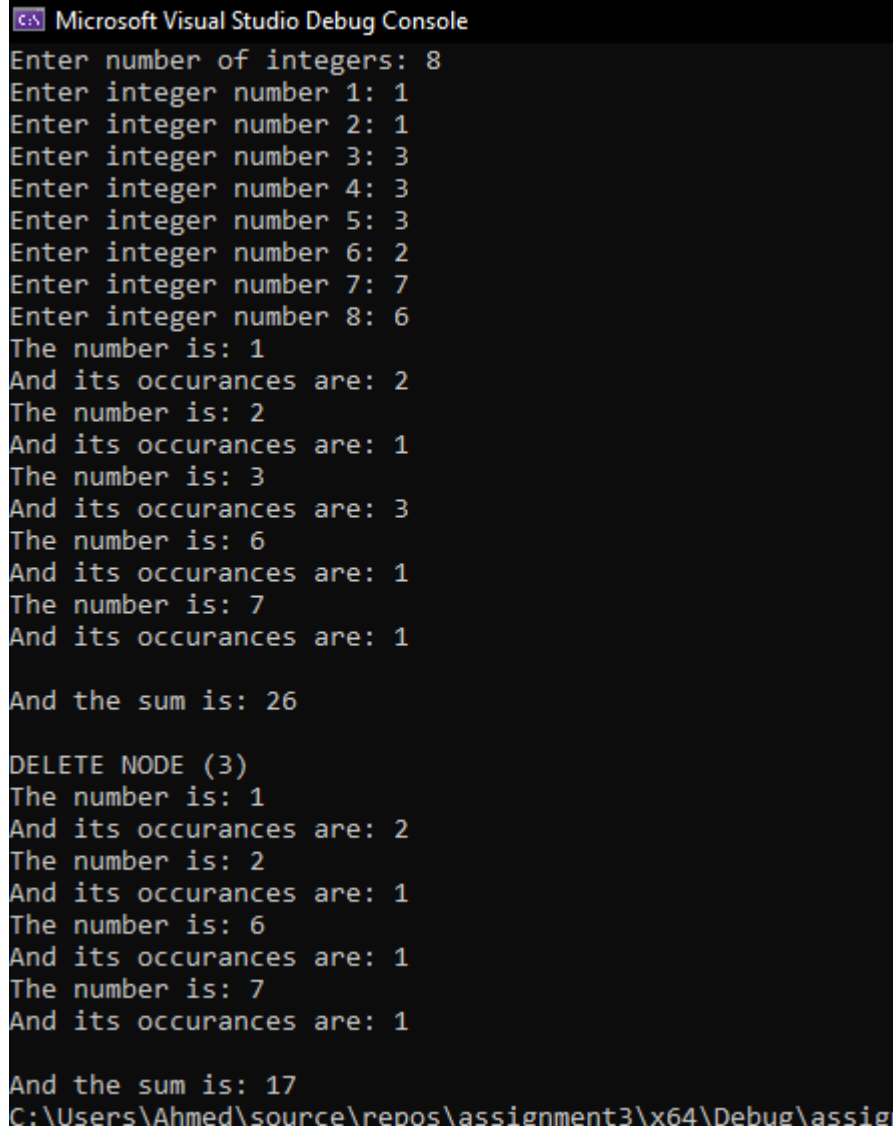


## Assignment (3) report



```
Microsoft Visual Studio Debug Console
Enter number of integers: 8
Enter integer number 1: 1
Enter integer number 2: 1
Enter integer number 3: 3
Enter integer number 4: 3
Enter integer number 5: 3
Enter integer number 6: 2
Enter integer number 7: 7
Enter integer number 8: 6
The number is: 1
And its occurrences are: 2
The number is: 2
And its occurrences are: 1
The number is: 3
And its occurrences are: 3
The number is: 6
And its occurrences are: 1
The number is: 7
And its occurrences are: 1

And the sum is: 26

DELETE NODE (3)
The number is: 1
And its occurrences are: 2
The number is: 2
And its occurrences are: 1
The number is: 6
And its occurrences are: 1
The number is: 7
And its occurrences are: 1

And the sum is: 17
C:\Users\Ahmed\source\repos\assignment3\x64\Debug\assig
```

Here I create a vector of size 8 then make the linked list, display each number and its number of occurrences then displaying the sum by calculating the total of each number \* its number of occurrences. Then I delete the node that contain the number 3 and I redisplay the all the nodes and recalculate the sum.

One thing I did was that I sorted the vector before counting the number of occurrences to make it easier for me to count the number of occurrences.

I also met a problem where whenever I added a new node the linked list would delete the previous one and so I was not able to create a linked list. I fixed this by make the new node a pointer as follows: `Node *newnode = new node;`