```
Input a the length of the vector n: 20
The random vector is: 0 36 -9 -5 -7 3 6 -10 35 15 19 9 -1 34 22 13 -8 10 -3 48
The random list is: 0 36 -9 -5 -7 3 6 -10 35 15 19 9 -1 34 22 13 -8 10 -3 48
The sorted vector is: 0 -1 -3 3 -5 6 -7 -8 9 -9 -10 10 13 15 19 22 34 35 36 48

The new vector is: 1 2 3 4
The new list is: 5 6 7 8
The modified vector is: 1 2 3 4 5 6 7 8
The modified list is: 5 6 7 8 1 2 3 4

The new vector is: 10 20 30 40
The new list is: 50 60 70 80
The reverse vector is: 40 30 20 10
The reverse list is: 80 70 60 50
(base)PS C:\Users\Mark\OneDrive - Northeastern University\Embeded Design\Lecture\Lecture 22>
```