Week 2

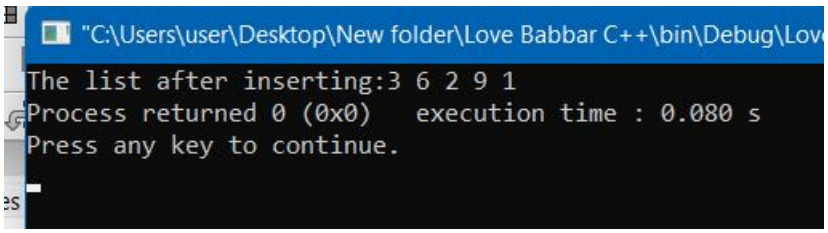
Topics: Array, singly linked list, doubly linked list using STL

1)

1st Ary before swapping are : 11 21 31 41 51 61
2nd Ary before swapping are: 71 81 91 10 11 12
1st Ary after swapping are: 71 81 91 10 11 12
2nd Ary after swapping are: 11 21 31 41 51 61

Q.2 Write a program to insert following elements in the doubly linked list using STL:
3,6,2,9,1
After inserting the above elements delete first three elements from the doubly linked list.

```
#include <iostream>
#include <list>
using namespace std;
int main()
{
list<int> list1;
list1.push_back(3);
list1.push_back(6);
list1.push_back(2);
list1.push_back(9);
list1.push_back(1);
list<int>::iterator i ;
cout << "The list after inserting:";
for (i = list1.begin();i != list1.end();i++)
cout << *i << " ";
}
```



3)

Initial List: 1 2 3 4
List after first resize: 1 2
List after second resize: 1 2 0 0
List after third resize: 1 2 0 0 50

Q.4 Write a program to implement singly linked list using STL with the following
elements: 10, 34, 56, 78, 34, 78, 90

```
#include <iostream>
#include <forward_list>
using namespace std;
int main()
{
forward_list<int> list1;
list1.push_front(10);
list1.push_front(34);
list1.push_front(56);
list1.push_front(78);
list1.push_front(34);
list1.push_front(78); list1.push_front(90);
forward_list<int>::iterator i ;
cout << "The list after inserting:";
for (i = list1.begin();i != list1.end();i++)
cout << *i << " ";
}
```