LINKED LIST

INPUT:

```cpp
#include<iostream>

#include<iterator>

#include<list>>

using namespace std;

// function for printing the elements in a list

void printlist(list<int> l)

{

list<int>::iterator itr;

for (itr = l.begin(); itr != l.end(); ++itr)

cout << *itr<<" ";

cout<<endl;

}

int main()

{

list<int> testlist;

for (int i = 0; i < 8; i++) {

testlist.push_back(i * 3);

testlist.push_front(i * 4);

}

cout << "\nList is : ";

printlist(testlist);

cout << "\nlist.front() : " << testlist.front();

cout << "\nlist.back()  :"  << testlist.back();

cout << "\nlist.pop_front() : ";

testlist.pop_front();

printlist(testlist);
```
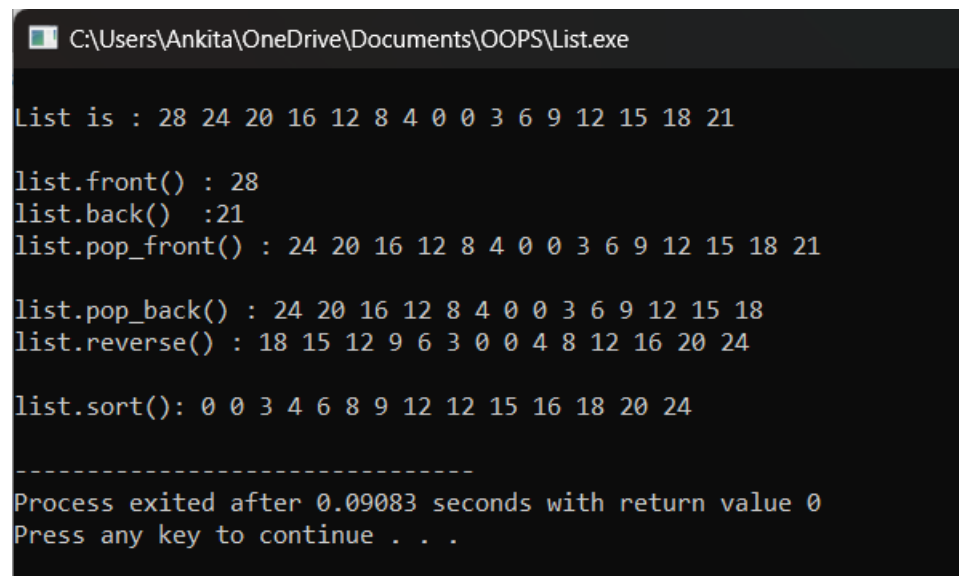
```cpp
cout << "\nlist.pop_back() : ";

testlist.pop_back();

printlist(testlist);

cout << "\list.reverse() : ";

testlist.reverse();

printlist(testlist);

cout << "\nlist.sort(): ";

testlist.sort();

printlist(testlist);

return 0;

}
```

OUTPUT:

C:\Users\Ankita\OneDrive\Documents\OOPS\List.exe

```
List is : 28 24 20 16 12 8 4 0 0 3 6 9 12 15 18 21

list.front() : 28
list.back()  :21
list.pop_front() : 24 20 16 12 8 4 0 0 3 6 9 12 15 18 21

list.pop_back() : 24 20 16 12 8 4 0 0 3 6 9 12 15 18
list.reverse() : 18 15 12 9 6 3 0 0 4 8 12 16 20 24

list.sort(): 0 0 3 4 6 8 9 12 12 15 16 18 20 24

--------------------------------
Process exited after 0.09083 seconds with return value 0
Press any key to continue . . .
```