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| METHODS | Q2 BIG OH | Q3 BIG OH |
| boolean isEmpty() | O(1) | O(1) |
| int length() | O(n) | O(n) |
| void print() | O(n) | O(n) |
| void addAsHead(int i) | O(1) | O(1) |
| void addAsTail(int i) | O(1) | O(1) |
| void addSorted(int i) | O(n) | O(n) |
| Node find(int i) | O(n) | O(n) |
| void reverse() | O(n) | O(n) |
| int popHead() | O(1) | O(1) |
| void removeFirst(int i) | O(n) | O(n) |
| void removeAll(int i) | O(n^2) | O(n^2) |
| void addAll(List l) | O(1) | O(1) |

**Q3) ANSWER;**If the number of customers grow to 10 million, what we can do is that we can divide the customers into separate groups based on their Nationality,region,ID, etc. These groups would themselves represent a linked list separately. When we need to search for any customer first we will iterate through the groups to first find the specific customer group similar to the one we have searched and then iterate through that particular group only to find our customer.  
For example   
1st group=Customers from Pakistan  
2nd group=Customers from India  
before searching we will look which nationality does the customer belong to, if he belongs to Pakistan we will only look in the list of Pakistan only.  
The list of Pakistan could further be divided into cities, zip-code, etc. To which we will do the same thing, hence this would significantly improve the performance of our program for a large no. of customers like 10 million.