Mock Interviews 1B

DCSC

November 4 2016

1   Next Number in Array

```cpp
int find_next_num()
{
    int arr[6] = {5,6,3,10,9,12};
    int new_arr[6] = {0,0,0,0,0,0};

    cout<<"Input:";
    for (int i = 0; i < 6; i++)
     cout<<arr[i]<<" ";

cout << endl;
for (int i = 0; i < 6; i++)
{
    for (int j = i + 1; j < 6; j++)
    {
    if(arr[j] > arr[i])
    {
    new_arr[i] = arr[j];
    break;
    }
     new_arr[5] = arr[5];
    }
}
cout<<"Output:";
    for (int i = 0; i < 6; i++)
      cout<<new_arr[i]<<" ";

cout<<endl;

return 0;
}
```

2 Palindrome

```
int is_palindrome()
{

    list<int> myList{1, 1, 2, 1};
    list<int>::reverse_iterator it2 = myList.rbegin();

    for (list<int>::iterator it = myList.begin(); it != myList.end(); it++)
    {
      if (*it != *it2)
     {
         cout << "Not a palindrome\n";
         return 0;
      }
      it2++;
    }
    cout << "Linked List is a palindrome\n";
     return 0;
}
```