```
int main()
    LIST 1;
    KhoiTao(1);
    NhapDS(1);
    cout << "\n\n\t DANH SACH PHAN TU: ";</pre>
    XuatDanhSach(1);
    cout << "\n\n\t GIA TRI LON NHAT: " << TimMax(1);</pre>
    cout << "\n\n\t TRUNG BINH CONG: " << Tinh TBC(1)<<endl;</pre>
    cout << "\n\t SO LUONG PHAN TU: " << DemSoLuong(1)<<endl;</pre>
    if(Kiemtra_Tang(1)){
        cout<<"\n\t DAY TANG !!"<<endl;</pre>
    else cout<<"\n\t DAY KHONG TANG!!"<<endl;</pre>
    int y,x;
    cout<<"\nNhap gia tri y muon chen: ";</pre>
    cout << "\nNhap gia tri x de them y vao sau: ";</pre>
    cin >> x;
    ThemGiatri_y_VaoSauCacGiatri_x(1,x,y);
    XuatDanhSach(1);
    return 0;
```

```
void ThemVaoCuoi(LIST &L, NODE *p)
    if (L.pHead == NULL)
        l.pHead = l.pTail = p;
    else
        l.pTail->pNext = p;
        l.pTail = p;
void NhapDS(LIST &L){
    for (int i = 1;; i++)
        int x;
        cout << "\nNhap x"<<i<<": ";</pre>
        cin \gg x;
        NODE *p = KhoiTaoNODE(x);
        ThemVaoCuoi(l, p);
        if(x==0) break;
```

```
//Ho ten: Nguyen Pham Thanh Hung
//MSSV: 6151071056
//Ngay sinh: 16/09/2002
//Email: 6151071056@st.utc2.edu.vn
void XuatDanhSach(LIST l)
{
    for (NODE *k = l.pHead; k != NULL; k = k->pNext)
        {
        cout << k->data << " ";
      }
}</pre>
```

```
//Ho ten: Nguyen Pham Thanh Hung
//MSSV: 6151071056
//Ngay sinh: 16/09/2002
//Email: 6151071056@st.utc2.edu.vn
int DemSoLuong(LIST t){
   int Dem=0;
   for(NODE *k = t.pHead;k != NULL;k=k->pNext)
   {
       Dem++;
   }
   return Dem;
}
```

```
//Ho ten: Nguyen Pham Thanh Hung
//MSSV: 6151071056
//Ngay sinh: 16/09/2002
//Email: 6151071056@st.utc2.edu.vn
int TimMax(LIST l)
{
    int max = l.pHead->data;
    NODE *h;
    for (NODE *k = l.pHead->pNext; k != NULL; k = k ->pNext)
    {
        if (max < k->data)
        {
            max = k->data;
        }
      }
      return max;
}
```

```
//Ho ten: Nguyen Pham Thanh Hung
//MSSV: 6151071056
//Ngay sinh: 16/09/2002
//Email: 6151071056@st.utc2.edu.vn
float Tinh_TBC(LIST l)

int Tong=l.pHead->data;
int n=1;
float TBC;
for(NODE *k=l.pHead->pNext; k!=NULL; k=k->pNext)
{
    Tong= Tong+k->data;
    n++;
}
TBC= float(Tong/n);
return TBC;
}
```

```
//Ho ten: Nguyen Pham Thanh Hung
//MSSV: 6151071056
//Ngay sinh: 16/09/2002
//Email: 6151071056@st.utc2.edu.vn
//Kiem tra danh sach tang dan
bool Kiemtra_Tang(LIST l){
    for(NODE *k = l.pHead;k->pNext != NULL;k=k->pNext)
    {
        if(k->data > k->pNext->data){
            return false;
        }
    }
    return true;
}
```