```c
Bài 1) # include <stdio.h>

int i;
void Nhap (int a[], int n){
    for (i=1; i<=n; i++)
        printf("Nhap phan tu thu %d: ",i);
        scanf("%d",&a[i]);
    }
}

void In (int a[], int n){
    for (i=1; i<=n; i++){
        printf(" %d ",a[i]);
    }
}

int KtraTangGiam (int a[], int n){
    int dt=0, dg=0;
    for(i=1; i<=n; i++){
        if (a[i] <= a[i+1])
            dt++;
        if (a[i] >= a[i+1])
            dg++;
    }
    if (dt==n)
        return 1;
    if (dg==n)
        return 1;
    else
        return 0;
}
```

```
main () {
    int *ds , n;
    printf ("Nhap so phan tu:   ");
    scanf ("%d", &n);
    ds = new int[n+1];
    Nhap (ds, n);
    In (ds, n);
    if (Ktra Tang Giam (ds, n) == 1)
        printf ("Tang ");
    if (Ktra Tang Giam (ds, n) == -1)
        printf ("Giam ");
    if (Ktra Tang Giam (ds, n) == 0)
        printf ("Khong tang khong gian ");
}


Bai 2:
#include <stdio.h>
#include <string.h>
int i;
struct SINHVIEN{
        char ten[50], msv[15], lop[10];
        float dtb;
};

B2) (trang 1)
```

```
void    Xoalop (SINHVIEN sv[], int &n, char xlop[]){
        int vt;
        while (Timlop (sv, n, xlop) != 0){
            vt = Timlop (sv, n, xlop);
            for (i = vt; i <= n-1; i++){
                sv[i] = sv[i+1];
            }
            n--;
        }
}

void   Sapxep DTB (SINHVIEN sv[], int &n){
        SINHVIEN tg;
        int j;
        for (i = 1; i <= n-1; i++){
            for (j = i+1; j <= n; j++){
                if (sv[i].dtb > sv[j].dtb){
                    tg = sv[i];
                    sv[i] = sv[j];
                    sv[j] = tg;
                }
            }
        }
}
```

TÂN TIÊN

Nguyễn Đức Cường - 20505312001110

```
int   Tim Vtri Diem DSX (SINH VIEN sv[], int n, SINH VIEN Chu[])
{
        int d = 0;
        for (i = 1; i <= n; i++){
            if (chen[1]. dtb > sv[i]. dtb)
                        d++;
            if ( d == n )
                        return n + 1;
        }
        for (i = 1; i <= n; i++){
            if ( chen[1]. dtb < sv[i]. dtb)
                        return i;
        }
        return -1;
}

Void   Chen Into (SINH VIEN sv[], int & n);
        int vt;
        SINH VIEN   chen[1];
        printf (" \n Nhap ten sinh vien muon chen: ");
        fflush (stdin);
        gets ( chen[1]. ten );
        printf ("Ma sinh vien: ");
        gets ( chen[1]. msv );
```

B2_Trg A

```
printf (" Lop: ");
gets (chu[1]. lop );
printf (" Diem trung binh: ");
scanf (" %f", & chu[1].dtb);
vt = TimVtriDiemDSX (sv, n, chu);
for (i = n; i >= vt; i - -){
    sv[i+1] = sv[i];
}
    sv[vt] = chu[1];
    n++;
}
int kiem sx - DTB (SINH VIEN sv[], int n){
    int dt = 0; dg = 0
    for (i=1; i <= n; i++){
        if (sv[i]. dtb <= sv[i+1].dtb )
            dt++;
        if (sv[i].dtb >= sv[i+1]. dtb)
            dg++;
    }
    if (dt == n)
        return 1;
    if (dg == n)
        return -1;
    else
        return 0;
```

```
main ()}
    int n;
    SINH VIEN *ds;
    char tim[10], xoa[10];
    printf ("Nhap so phan tu: ");
    scanf ("%d", &n);
    ds = new SINH VIEN [n+1];
    Nhap (ds, n);
    In (ds, n);
    printf ("Nhap lop ban muon tim: ");
    scanf ("%s", &tim);
    if (TimLop (ds, n, tim) != 0)
        printf (" co lop nay trong ds ");
    else
        printf (" Khong co lop nay ");
    printf ("\n Nhap lop muon xoa: ");
    scanf ("%s", &xoa);
    XoaLop (ds, n, xoa);
    In (ds, n);
    SapXep DTB (ds, n);
    printf ("\n Sau khi sap xep \n");
    In (ds, n);
```

B2 - Tng G

```
Chen Info (ds, n);
In (ds, n);
if (Ktra Sx - DTB (ds, n) == 1)
        printf("\n DS da Sx tang dan theo DTB");
if (Ktra x - DTB (ds, n) == -1)
        printf("\n DS da Sx giam dan theo DTB");
if (Ktra Sx - DTB (ds, n) == 0)
        printf("\n chua Sx theo DTB");
}
}
```