```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>

struct xrec1
{
        int m;
        int d;
        int y;
};
typedef struct xrec1 Date;

struct xrec2
{
    char fName[10];
    char lName[10];
    char iD[5];
    double gpa;
    Date enterDate;
};
typedef struct xrec2 Student;

Student getStudent(void);
void printStudent(Student x);
void printDate(Date x);
Student getStudentR(void);

Student findTheBest( Student * x  , int n);


int main()
{
    Student  sts[5];int i;Student * r;
    Student st1,st2,st3,st4;
    Student st5 = {"Lisa","Smith","11111",4.5,{5,25,2018}};
    Date xDate;
    xDate = st5.enterDate;
    srand(time(NULL));
    printf("===>>>%d\n",xDate.d);
    st1 = getStudent();
    printStudent(st1);

    r = &st5;
    printStudent(*r);


        for(i = 0 ; i < 5 ; i++)
        {
                sts[i] = getStudentR();
                printStudent(sts[i]);
        }
        printf("********************\n");
        printStudent(findTheBest(sts,5));

        return 0;
}
Student findTheBest( Student * x  , int n)
```

```c
{    Student xSt; int i; double max=0.0;
     for(i= 0 ; i < n; i++)
        {
            if(x[i].gpa >= max)
            {
                    max = x[i].gpa;
                    xSt = x[i];
            }


        }
        return xSt;



}




void printStudent(Student x)
{
        printf("First Name:%s\n",x.fName);
        printf("Last  Name:%s\n",x.lName);
        printf("       ID:%s\n",x.iD);
        printf("      GPA:%.2f\n",x.gpa);
        printDate(x.enterDate);
}
void printDate(Date x)
{
        printf("Mount:%d:Day:%d:Year:%d\n",x.m,x.d,x.y);
}
Student getStudentR(void)
{
    Student xSt; Date xDate={6,24,2019};int r,g;

      char *    f[]
={"Lisa","Susan","Jack","Marry","Su","Lee","Blair","John","Joe","Kim"};

        char *    ln[]    ={"L-Lisa","L-Susan","L-Jack","L-Marry","L-Su","L-Lee","L-
Blair","L-John","L-Joe","L-Kim"};
        char *    iD[]
={"1111","2222","3333","4444","5555","6666","7777","8888","9999","0000"};

        r = rand()% 10;
        g = rand()% 5;
        strcpy(xSt.fName,f[r]); strcpy(xSt.lName,ln[r]); strcpy(xSt.iD , iD[r]);
        xSt.gpa = g;xSt.enterDate= xDate;

        return xSt;

}

Student getStudent(void)
{
        Student xSt; Date xDate;
        printf("Enter FName>>>");
```

```c
        fflush(stdin);
        gets(xSt.fName);
        printf("Enter LName>>>");
        fflush(stdin);
        gets(xSt.lName);
        printf("Enter ID>>>");
        fflush(stdin);
        gets(xSt.iD);
        printf("Enter gpa>>");
        scanf("%lf", &xSt.gpa);
        printf("Enter m d y>>");
        scanf("%d %d %d",&xDate.m,&xDate.d,&xDate.y);

        xSt.enterDate = xDate;
        return xSt;
}
```