```
#include<fstream.h>
#include<conio.h>
#include<ctype.h>
#include<string.h>
#include<stdio.h>
#include<dos.h>
#include<stdlib.h>
const char TL=218,TR=191,BL=192,BR=217,HL=196,VL=179;
const char DVL=186,DHL=205,DTL=201,DTR=187,DBL=200,DBR=188;
void EnterDate(char []);
void ClearArea(int C1,int R1,int C2,int R2);
void DispCh(int C,int R,char Ch);
void DispCh(int C,int R,char Ch[]);
void Color(int TC,int TB);
void VLine(int X,int Y,int L);
void HLine(int X,int Y,int L);
void Recta(int C1,int R1,int C2,int R2);
void DVLine(int X,int Y,int L);
void DHLine(int X,int Y,int L);
void DRecta (int C1,int R1,int C2,int R2);
int VMenu(int C,int R,char Men[][15],int Noo);
int HMenu(int C,int R,char Men[][15],int Noo);
//MAIN CLASS
class MyTrain
       int Tno, Distance;
       float Fare;
       char TName[30], From[20], To[25], DepartTime[5], ArrivTime[5];
public:
       void EnterTrainDetails();
       void ShowTrainDetails();
       int RTno(){return Tno;}
       int RTName(char Name[])
       {
              return strcmpi(TName,Name);
       int RFrom(char F[])
       {
              return strcmpi(From,F);
```

```
}
       int RTo(char T[])
       {
              return strcmpi(To,T);
       }
       void ReplaceTno()
       {
              DispCh(2,12,"Enter new Train No.");
              cin>>Tno;
       }
       void ReplaceTName()
       {
              DispCh(2,12,"Enter new Train Name");
              gets(TName);
      }
};
void MyTrain::EnterTrainDetails()
{
       _setcursortype(_NORMALCURSOR);
       DispCh(2,8,"Enter Train No. : ");
       cin>>Tno;
       DispCh(2,10,"Enter Train Name: ");
       cin>>TName;
       DispCh(2,12,"Enter Source Station: ");
       gets(From);
       DispCh(2,14,"Enter Destination:");
       gets(To);
       DispCh(2,16,"Enter Distance
                                      : ");
       cin>>Distance;
       DispCh(2,18,"Enter the Fare
                                        : ");
       cin>>Fare;
       DispCh(2,20,"Enter Departure Time (xxxx hrs): ");
       cin>>DepartTime;
       DispCh(2,22,"Enter Arrival Time (xxxx hrs): ");
       cin>>ArrivTime;
       _setcursortype(_NOCURSOR);
}
```

```
void MyTrain::ShowTrainDetails()
       ClearArea(2,11,78,19);
       DispCh(2,12," Train no.
                                : ");
       gotoxy(30,12);
       cprintf("%d",Tno);
       DispCh(2,13," Train name : ");
       DispCh(30,13,TName);
       DispCh(2,14," Source Station: ");
       DispCh(30,14,From);
       DispCh(2,15," Destination: ");
       DispCh(30,15,To);
       DispCh(2,16," Distance : ");
       gotoxy(30,16);
       cprintf("%d",Distance);
       DispCh(2,17," Fare
                                 : ");
       gotoxy(30,17);
       cprintf("%7.2f",Fare);
       DispCh(2,18," Departure time (xxxx hrs): ");
       DispCh(30,18,DepartTime);
       DispCh(2,19," Arrival time (xxxx hrs): ");
       DispCh(30,19,ArrivTime);
}
void ShowTrains()
{
       MyTrain s;
       fstream fil;
       fil.open("trains.dat", ios::binary | ios::in);
       while(fil.read((char*)&s, sizeof(s)))
       {
              s.ShowTrainDetails();
       fil.close();
}
void CreateTrains()
{
       MyTrain s;
       char ans;
       fstream fil;
```

```
fil.open("trains.dat", ios::binary | ios::app);
       do
       {
               s.EnterTrainDetails();
               fil.write((char*)&s, sizeof(s));
               DispCh(2,23,"Enter another record?(Y/N)");
               cin>>ans;
       }
       while(toupper(ans)=='Y');
       fil.close();
}
void SearchTno()
       fstream fil;
       fil.open("trains.dat", ios::binary | ios::in);
       MyTrain T;
       int Tnos,found=0;
       _setcursortype(_NORMALCURSOR);
       DispCh(2,8,"Enter train number to be searched:");
       cin>>Tnos;
       while(fil.read((char*)&T, sizeof(T)) && !found)
       if(Tnos==T.RTno())
       {
               T.ShowTrainDetails();
               found++;
       if(!found)
               DispCh(2,22,"Sorry,no such train number exists");
       _setcursortype(_NOCURSOR);
       fil.close();
}
void SearchTName()
{
       fstream fil;
       fil.open("trains.dat", ios::binary | ios::in);
       MyTrain T;
       int found=0;
       char TName[20];
```

```
_setcursortype(_NORMALCURSOR);
       DispCh(2,8,"Enter train name to be searched:");
       gets(TName);
       while(fil.read((char*)&T, sizeof(T)))
              if(T.RTName(TName)==0)
              {
                     T.ShowTrainDetails();
                     found++;
              }
       if(!found)
              DispCh(2,22,"Sorry, no such train exists ");
       _setcursortype(_NOCURSOR);
       fil.close();
}
void SearchFromTo()
       fstream fil;
       fil.open("trains.dat", ios::binary | ios::in);
       MyTrain T;
       int found=0;
       char From[20];
       char dest[20];
       _setcursortype(_NORMALCURSOR);
       DispCh(2,8,"Enter From station to be searched:");
       gets(From);
       DispCh(2,9,"Enter Destination to be searched:");
       gets(dest);
       while(!found&&fil.read((char*)&T, sizeof(T)))
              if(T.RFrom(From)==0 && T.RTo(dest)==0)
              {
                     T.ShowTrainDetails();
                     found++;
              }
       if(!found)
              DispCh(2,22,"Sorry, no such train available ");
       _setcursortype(_NOCURSOR);
       fil.close();
}
```

```
int DeleteTrains()
{
       fstream fil1,fil2;
       fil1.open("trains.dat",ios::binary | ios::in);
       fil2.open("ntrains.dat",ios::binary | ios::out);
       MyTrain t;
       int n,del=0;
        _setcursortype(_NORMALCURSOR);
       DispCh(2,8,"Enter train number to be deleted");
       cin>>n;
       while(fil1.read((char*)&t, sizeof(t)))
       {
               if (t.RTno()!=n)
                       fil2.write((char*)&t, sizeof(t));
               else
                       del++;
       if(!del)
               DispCh(2,10,"Record not found");
       else
               DispCh(2,10,"Record Deleted");
        _setcursortype(_NOCURSOR);
       fil1.close();
       fil2.close();
       remove("trains.dat");
       rename("ntrains.dat","trains.dat");
       return del;
}
void ModifyTrainNumber()
{
       MyTrain t;
       fstream fil;
       fil.open("trains.dat",ios::binary | ios::out | ios::in);
       int r,found=0;
       _setcursortype(_NORMALCURSOR);
       ClearArea(2,7,78,23);
       DispCh(2,8,"Enter the train no. to be changed ");
       while(!found&&fil.read((char*)&t, sizeof(t)))
       {
               if (r==t.RTno())
               {
```

```
t.ReplaceTno();
                      int byteno=fil.tellp();
                      fil.seekp(byteno-sizeof(t));
                      fil.write((char*)&t, sizeof(t));
                      DispCh(2,10,"The modified record is:");
                      t.ShowTrainDetails();
                      found++;
               }
       }
       if(found==0)
               DispCh(2,10,"Invalid Train No.");
       _setcursortype(_NOCURSOR);
       fil.close();
}
void ModifyTrainName()
       MyTrain t;
       fstream fil;
       fil.open("trains.dat",ios::binary | ios::out | ios::in);
       char r[30];
       int m,found=0;
       ClearArea(2,7,78,23);
       _setcursortype(_NORMALCURSOR);
       DispCh(2,8,"Enter Train no. to be searched");
       cin>>m;
       DispCh(2,9,"Enter the train name to be changed ");
       gets(r);
       while(!found&&fil.read((char*)&t, sizeof(t)))
       {
               if(t.RTName(r)==0 \&\& m==t.RTno())
                      t.ReplaceTName();
                      int byteno=fil.tellp();
                      fil.seekp(byteno-sizeof(t));
                      fil.write((char*)&t, sizeof(t));
                      DispCh(2,10,"The modified record is:");
                      t.ShowTrainDetails();
                      found++;
               }
       }
```

```
if(found==0)
              DispCh(2,10,"Invalid Train Name");
       _setcursortype(_NOCURSOR);
       fil.close();
}
class Passenger
{
       char PName[30], Gender, Father[30], FromStation[30], ToStation[30], Date[10];
       int Age, Tno;
       int SeatNo;
public:
       void InputPassengerDetails();
       void OutputPassengerDetails();
       void MatchToFrom(int);
       void AssignSeatNo(int n)
       {
              SeatNo=n;
       }
       int RSeatNo()
       {
              return SeatNo;
       }
       int RTno()
       {
              return Tno;
       }
       int RTName(char TNam[])
       {
              return strcmpi(PName,TNam);
       }
};
void EnterDate(char D[])
       D[0] = getche();
       D[1] = getche();
       cprintf("/");
```

```
D[2]=getche();
       D[3]=getche();
       cprintf("/");
       D[4]=getche();
       D[5]=getche();
       D[6] = '0';
       getch();
}
void Passenger::InputPassengerDetails()
       _setcursortype(_NORMALCURSOR);
       ClearArea(2,8,78,23);
       DispCh(30,8,"ENTER PASSENGER DETAILS");
       DispCh(2,10,"Enter Name: ");
       gets(PName);
       DispCh(2,11,"Enter Age:");
       cin>>Age;
       DispCh(2,12,"Enter Gender(M/F): ");
       cin>>Gender;
       DispCh(2,13,"Enter father's Name: ");
       gets(Father);
       DispCh(2,14,"Enter Date of travel:eg.(22/10/08)");
       EnterDate(Date);
       DispCh(2,15,"Enter Station From: ");
       gets(FromStation);
       DispCh(2,16,"Enter Destination Station: ");
       gets(ToStation);
       DispCh(2,17,"Enter Train no. ");
       cin>>Tno;
}
void Passenger::OutputPassengerDetails()
{
       ClearArea(2,10,78,23);
       DispCh(2,10,"Name : ");
       DispCh(30,10,PName);
       DispCh(2,11,"Age :");
       gotoxy(30,11);
       cprintf("%d",Age);
       DispCh(2,12,"Gender: ");
```

```
DispCh(30,12,Gender);
       DispCh(2,13,"Father's Name: ");
       DispCh(30,13,Father);
       DispCh(2,14,"Date of Travel: ");
       DispCh(30,14,Date[0]);
       DispCh(31,14,Date[1]);
       DispCh(32,14,'/');
       DispCh(33,14,Date[2]);
       DispCh(34,14,Date[3]);
       DispCh(35,14,'/');
       DispCh(36,14,Date[4]);
       DispCh(37,14,Date[5]);
       DispCh(2,15,"Source Station: ");
       DispCh(30,15,FromStation);
       DispCh(2,16,"Destination Station: ");
       DispCh(30,16,ToStation);
       DispCh(2,17,"Train no. ");
       gotoxy(30,17);
       cprintf("%d",Tno);
}
void Reservation(int t,char d[])
{
       char name[20];
       char TN[10];
       itoa(t,TN,10);
       strcpy(name,TN);
       strcat(name,d);
       strcat(name,".DAT");
       fstream fil;
       fil.open(name,ios::binary|ios::app);
       Passenger k;
       int n;
       fil.seekg(0,ios::end);
       int byteno=fil.tellg()/(sizeof(k));
       n=byteno+1;
       k.AssignSeatNo(n);
       k.InputPassengerDetails();
       fil.write((char*)&k,sizeof(k));
       DispCh(2,20,"Your seat number is ");
       gotoxy(30,20);
       cprintf("%d",n);
       fil.close();
```

```
}
void Cancellation(int t,char d[])
       char name[20];
       char TN[10];
       itoa(t,TN,10);
       strcpy(name,TN);
       strcat(name,d);
       strcat(name,".DAT");
       fstream fil;
       fstream fil1,fil2;
       fil1.open(name,ios::binary | ios::in);
       fil2.open("nname.dat",ios::binary | ios::out);
       Passenger z;
       int n,del=0;
       DispCh(2,18,"Enter Your Seat No.");
       cin>>n;
       while(fil1.read((char*)&z, sizeof(z)))
       {
               if (z.RSeatNo()!=n)
                       fil2.write((char*)&z, sizeof(z));
               else
                       del++;
       }
       if(!del)
               DispCh(2,22,"Invalid seat Number!!");
       else
               DispCh(2,22,"Your ticket has been cancelled!");
       fil1.close();
       fil2.close();
       remove(name);
       rename("nname.dat", name);
}
void Passenger::MatchToFrom(int c)
{
       fstream fil;
       fil.open("trains.dat", ios::binary | ios::in);
       MyTrain t;
       Passenger s;
```

```
char ss[10], ds[10];
       int found=0;
       _setcursortype(_NORMALCURSOR);
       DispCh(2,8,"Please enter the following information");
       DispCh(2,10,"Source station");
       gets(ss);
       DispCh(2,12,"Destination station");
       gets(ds);
       while(!found&&fil.read((char*)&t, sizeof(t)))
       {
              if(t.RFrom(ss)==0 \&\& t.RTo(ds)==0)
                      DispCh(2,14,"Your train no. is ");
                      gotoxy(30,14);
                      cprintf("%d",t.RTno());
                      DispCh(2,16,"Enter Date of travel:eg.(22/10/08)");
                      EnterDate(Date);
                      if(c==0)
                             Reservation(t.RTno(),Date);
                      else
                      if(c==1)
                             Cancellation(t.RTno(),Date);
                      found++;
              }
       }
       if(found==0)
              DispCh(2,14,"No Train Available");
       _setcursortype(_NOCURSOR);
       fil.close();
}
void SearchPassengerName()
{
       fstream fil;
       Passenger T;
       int found=0;
       char pname[20];
       _setcursortype(_NORMALCURSOR);
       ClearArea(2,7,78,23);
       DispCh(2,8,"Enter Passenger Name to be searched:");
```

```
gets(pname);
       DispCh(2,9,"Enter Train Number in which travelling:");
       char Tn[20];
       gets(Tn);
       DispCh(2,10,"Enter Date on which travelling:");
       char Dt[20];
       EnterDate(Dt);
       char Fname[20];
       strcpy(Fname,Tn);
       strcat(Fname, Dt);
       strcat(Fname,".DAT");
       fil.open(Fname, ios::binary | ios::in);
       while(fil.read((char*)&T, sizeof(T)))
              if(T.RTName(pname)==0)
                      T.OutputPassengerDetails();
                      found++;
       if(!found)
              DispCh(2,22,"Sorry, no such passenger exists ");
       _setcursortype(_NOCURSOR);
fil.close();
}
void SearchPassengerTrainSeat()
{
       fstream fil;
       Passenger T;
       int tnos,snos,found=0;
       _setcursortype(_NORMALCURSOR);
       DispCh(2,9,"Enter Train Number in which travelling:");
       int Tnos;
       char Tn[20];
       cin>>Tnos;
       itoa(Tnos,Tn,10);
       DispCh(2,10,"Enter Date on which travelling:");
       char Dt[20];
       EnterDate(Dt);
       char Fname[20];
       strcpy(Fname,Tn);
       strcat(Fname,Dt);
       strcat(Fname,".DAT");
```

```
fil.open(Fname, ios::binary | ios::in);
      ClearArea(2,7,78,23);
      DispCh(2,9,"Enter seat number to be searched:");
      cin>>snos;
      while(!found&&fil.read((char*)&T, sizeof(T)))
      if(Tnos==T.RTno()&&snos==T.RSeatNo())
      {
             T.OutputPassengerDetails();
             found++;
      }
      if(!found)
             DispCh(2,22,"Sorry,no such allocation exists");
      fil.close();
}
void main()
{
      _setcursortype(_NOCURSOR);
      textmode(C80);
      Color(WHITE,CYAN);
      ClearArea(1,1,80,25);
      DRecta(1,1,80,24);
      DispCh(12,2,"RAILWAY RESERVATION SYSTEM");
      HLine(2,3,76);
      char Menu[][15]={
                          "ADMIN ",
                          "SEARCH",
                          "UTILITY",
                          "QUIT "
                    };
      char SMenu[][15]={
                          "ADD TRAINS ",
                          "DELETE TRAINS",
                          "VIEW TRAINS ",
                          "MODIFY TRAINS"
                    };
      char LMenu[][15]={
                          "BY TRAIN NO ",
                          "BY TRAIN NAME",
                          "BY SOURCE STN",
                          "BY PSNGR NAME",
                          "BY SEAT NO. "
```

```
};
char MMenu[][15]={ "RESERVATION",
                    "CANCELLATION"
             };
char NMenu[][15]={ "BY NUMBER ",
                    "BY NAME "
             };
int Quit=0;
do
{
       Color(BLUE,WHITE);
       ClearArea(2,4,79,23);
       int N=HMenu(2,4,Menu,4),SN;
       DispCh(30,23,"Press Esc To Go Back...");
       switch (N)
       {
              case 0:
                    SN=VMenu(2,6,SMenu,4);
                    switch(SN)
                    {
                           case 0: ClearArea(2,4,79,23);
                                  DispCh(30,6,"ENTER TRAIN INFORMATION");
                                  CreateTrains();
                                  break;
                           case 1: ClearArea(2,4,79,23);
                                  DispCh(30,6,"DELETING TRAIN");
                                  int del;
                                  del=DeleteTrains();
                                  if(del!=0)
                                  {
                                         rename("ntrains.dat", "trains.dat");
                                         remove("ntrains.dat");
                                  break;
                           case 2: ClearArea(2,4,79,23);
                                  DispCh(30,6,"VIEW TRAINS");
```

```
ShowTrains();
                    break;
             case 3: ClearArea(2,4,79,23);
                    DispCh(30,6,"MODIFY TRAINS");
                    int X= VMenu(2,7,NMenu,2);
                    switch(X)
                    {
                           case 0:ModifyTrainNumber();
                                 break;
                           case 1:ModifyTrainName();
                    }
                    break;
      }
      getch();
      break;
case 1:
      SN=VMenu(25,6,LMenu,5);
      switch(SN)
             case 0: ClearArea(2,4,79,23);
                    DispCh(30,6,"SEARCHING BY TNO");
                    SearchTno();
                    break;
             case 1: ClearArea(2,4,79,23);
                    DispCh(30,6,"SEARCHING BY TNAME");
                    SearchTName();
                    break;
             case 2: ClearArea(2,4,79,23);
                    DispCh(30,6,"SEARCHING BY STN");
                    SearchFromTo();
                    break;
             case 3: ClearArea(2,4,79,23);
                    DispCh(30,6,"SEARCHING BY NAME");
                    SearchPassengerName();
                    break;
             case 4: ClearArea(2,4,79,23);
                    DispCh(30,6,"SEARCHING BY SEAT");
                    SearchPassengerTrainSeat();
                    break:
      }
```

```
getch();
                            break;
                     case 2:
                            SN=VMenu(50,6,MMenu,2);
                            Passenger s;
                            switch(SN)
                            {
                                   case 0: ClearArea(2,4,79,23);
                                           DispCh(30,6,"BOOKING OF TICKET");
                                           break;
                                   case 1: ClearArea(2,4,79,23);
                                           DispCh(30,6,"CANCELLATION");
                            s.MatchToFrom(SN);
                            getch();
                            break;
                     case 3:
                     case -1:
                            Quit=1;
              }
       }
       while (!Quit);
       getch();
}
void DispCh(int C,int R,char Ch)
{
       gotoxy(C,R);cprintf("%c",Ch);//C 1-80 R 1-25
}
void DispCh(int C,int R,char Ch[])
{
       gotoxy(C,R);cprintf("%s",Ch);
}
void Color(int TC,int TB)
{
       textcolor(TC);
       textbackground(TB);
}
```

```
void VLine(int X,int Y,int L)
  for (int i=Y;i<=Y+L;i++)
       DispCh(X,i,VL);\\
}
void HLine(int X,int Y,int L)
  for (int i=X;i<=X+L;i++)
       DispCh(i,Y,HL);
}
void Recta (int C1,int R1,int C2,int R2)
  DispCh(C1,R1,TL);
  DispCh(C1,R2,BL);
  DispCh(C2,R1,TR);
  DispCh(C2,R2,BR);
  VLine(C1,R1+1,R2-R1-2);
  VLine(C2,R1+1,R2-R1-2);
  HLine(C1+1,R1,C2-C1-2);
  HLine(C1+1,R2,C2-C1-2);
}
void DVLine(int X,int Y,int L)
{
  for (int i=Y;i<=Y+L;i++)
  DispCh(X,i,DVL);
}
void DHLine(int X,int Y,int L)
  for (int i=X;i<=X+L;i++)
  DispCh(i,Y,DHL);
  }
void DRecta (int C1,int R1,int C2,int R2)
  DispCh(C1,R1,DTL);
  DispCh(C1,R2,DBL);
  DispCh(C2,R1,DTR);
```

```
DispCh(C2,R2,DBR);
  DVLine(C1,R1+1,R2-R1-2);
  DVLine(C2,R1+1,R2-R1-2);
  DHLine(C1+1,R1,C2-C1-2);
  DHLine(C1+1,R2,C2-C1-2);
}
int VMenu(int C,int R,char Men[][15],int Noo)
       Color(WHITE,BLUE);
       Recta(C,R,C+strlen(Men[0])+1,R+Noo+1);
       for (int i=0;i<Noo;i++)
              DispCh(C+1,R+i+1,Men[i]);
       int Exit=0,Sel=0;
       do
       {
              int Tsel=Sel;
              Color(BLUE,WHITE);
              DispCh(C+1,R+Sel+1,Men[Sel]);
              Color(WHITE,BLUE);
              char Ch=getch();
              switch(Ch)
              {
                     case 71:
                            Sel=0;break;
                                            //Home -> Move to first option
                     case 79:
                            Sel=Noo-1;break; //End -> Move to Last option
                     case 72:
                            if (Sel==0)
                                           //Up -> Checking if already on top
                                   Sel=Noo-1; //
                                                     Move to the last option
                            else
                                                 Move one option up
                                   Sel--; //
                            break;
                     case 80:
                            if (Sel==Noo-1) //Down -> Checking if already at bottom
                                   Sel=0;
                                                //
                                                      Move to the first option
                            else
                                                //
                                   Sel++;
                                                      Move one step down
                            break;
                     case 27:
                            Sel=-1;
                                      //Escape-> Getting out of the Menu without valid
```

```
selection
                     case 13:
                            Exit=1;
                                      //Enter-> Getting out of the Menu with current selection
              DispCh(C+1,R+Tsel+1,Men[Tsel]);
       }
       while (!Exit);
       return Sel;
                         //Returning the selected value from menu
}
int HMenu(int C,int R,char Men[][15],int Noo)
{
       int Exit=0,Sel=0;
       Color(BLUE,WHITE);
       for (int i=0;i<Noo;i++)
              DispCh(C+21*i+1,R,Men[i]);
       do
       {
              int Tsel=Sel;
              Color(WHITE,BLUE);
              DispCh(C+21*Sel+1,R,Men[Sel]);
              Color(BLUE,WHITE);
              char Ch=getch();
              switch(Ch)
              {
                     case 71:
                            Sel=0;break;
                                            //Home
                     case 79:
                            Sel=Noo-1;break; //End
                     case 75:
                            if (Sel==0)
                                          //Left
                                   Sel=Noo-1;
                            else
                                   Sel--;
                            break;
                     case 77:
                            if (Sel==Noo-1) //Right
                                   Sel=0;
                            else
                                   Sel++;
                            break;
                     case 27:
                            Sel=-1; //Escape
```

```
case 13:
                             Exit=1; //Enter
       DispCh(C+21*Tsel+1,R,Men[Tsel]);
       while (!Exit);
       return Sel;
}
void ClearArea(int C1,int R1,int C2,int R2)
  window(C1,R1,C2,R2);
  clrscr();
  window(1,1,80,25);
  //Enter-> Getting out of the Menu with current selection
              DispCh(C+1,R+Tsel+1,Men[Tsel]);
       }
       while (!Exit);
       return Sel;
                         //Returning the selected value from menu
}
int HMenu(int C,int R,char Men[][15],int Noo)
{
       int Exit=0,Sel=0;
       Color(BLUE,WHITE);
       for (int i=0;i<Noo;i++)
              DispCh(C+21*i+1,R,Men[i]);
       do
       {
              int Tsel=Sel;
              Color(WHITE,BLUE);
              DispCh(C+21*Sel+1,R,Men[Sel]);
              Color(BLUE,WHITE);
              char Ch=getch();
              switch(Ch)
              {
                     case 71:
                             Sel=0;break;
```