#include<fstream.h>

#include<conio.h>

#include<ctype.h>

#include<stdio.h>

#include<string.h>

#include<process.h>

#include<stdlib.h>

char begining(char t[],char c[]);

char t1[20],t2[20];

void team1();

void team2();

class data

{char name[30];

int playercode;

int M1R;

int M2R;

int M3R;

int total\_run;

public:

data()

{

playercode=0;

strcpy(name,00);

M1R=0;

M2R=0;

M3R=0;

total\_run=0;

}

void enter\_name\_runs() //TO TAKE ENTRY OF NEW RECORDS

{

cout<<"\n Enter player code(Integral) : ";

cin>>playercode;

cout<<"\n Enter player name : ";

gets(name);

cout<<"\n First match run(s) : ";

cin>>M1R;

cout<<"\n Second match run(s) : ";

cin>>M2R;

cout<<"\n Third match run(s) : ";

cin>>M3R;

total\_runs();

}

void show\_record() //TO DISPLAY THE RECORDS EXISTING IN THE FILE

{

cout<<"\n Player code :"<<playercode;

cout<<"\n Player name :"<<name;

cout<<"\n First match run(s) :"<<M1R;

cout<<"\n Second match run(s) :"<<M2R;

cout<<"\n Third match run(s) :"<<M3R;

cout<<"\n Total run(s) :"<<total\_run;

}

void total\_runs() //CALCULATE TOTAL RUNS

{

total\_run=M1R+M2R+M3R;

}

int getplayercode()

{

return playercode;

}

int gettotalruns()

{

return total\_run;

}

char\* get\_name()

{

return name;

}

void modify\_data() //TAKE DATA TO MODIFIFY EXISTING RECORD

{

cout<<"\n Enter new data for modification :::::::: ";

cout<<"\n Enter First match run(s) : ";

cin>>M1R;

cout<<"\n Enter Second match run(s) : ";

cin>>M2R;

cout<<"\n Enter Third match run(s) : ";

cin>>M3R;

total\_runs();

}

};

data d;

fstream file;

fstream file1;

//\* \* \* \* \* \* \* \* \* \* \* \* \* CALCULATE HIGHEST RUN(s) \* \* \* \* \* \* \* \* \* \* \* \* \*

void highest()

{

file.open("record.dat",ios::in|ios::binary);

int post=0,tr=0,plr\_code=0,run=0;

file.read((char\*)&d,sizeof(d));

while(file)

{

run=d.gettotalruns();

if(run>tr)

{

post=file.tellg();

tr=run;

}

file.read((char\*)&d,sizeof(d));

}

file.close();

file.open("record.dat",ios::in|ios::binary);

file.seekg(post-sizeof(d));

file.read((char\*)&d,sizeof(d));

cout<<"\n::::::::::Highest run getter data::::::::::";

cout<<"\nHighest run(s) getter code : "<<d.getplayercode();

cout<<"\nHighest run getter player is : "<<d.get\_name();

cout<<"\nPlayer total run(s) are : "<<tr;

float avg;

avg=(tr)/3;

cout<<"\n Player average is : "<<avg;

file.close();

}

//\* \* \* \* \* \* \* \* \* \* \* \* INSERT NEW RECORD(s) \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

void insert()

{

int i,no;

file.open("record.dat",ios::in|ios::app|ios::binary);

cout<<"\n ::Entry of new record(s):: ";

cout<<"\nHow many record(s) you want to enter : ";

cin>>no;

for(i=1;i<=no;i++)

{

d.enter\_name\_runs(); //insert records

file.write((char\*)&d,sizeof(d));

}

file.close();

}

//\* \* \* \* \* \* \* \* \* \* \* \* \* DISPLAY EXISTING RECORD(s) \* \* \* \* \* \* \* \* \* \* \* \* \* \*

void display()

{

file.open("record.dat",ios::in|ios::binary);

cout<<"\n|||||||||||||||||||||| Entered record(s) ||||||||||||||||||||||||";

file.read((char\*)&d,sizeof(d));

while(file)

{

d.show\_record();

file.read((char\*)&d,sizeof(d));

}

file.close();

}

//\* \* \* \* \* \* \* \* \* \* \* \* \* SEARCH RECORD \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

void search()

{

int p,r,srch=0;

file.open("record.dat",ios::in|ios::binary);

cout<<"\nEnter the player code to see his records : ";

cin>>r;

file.seekg(0);

file.read((char\*)&d,sizeof(d));

while(file)

{

p=d.getplayercode();

if(r==p)

{

d.show\_record();

srch=1;

break;

}

else

{

file.read((char\*)&d,sizeof(d));

}

}

file.close();

if(srch==0)

{

cout<<"\nThere is no record which have this playercode .";

}

}

//\* \* \* \* \* \* \* \* \* \* \* \* \* \* MODIFY DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

void modify()

{

int posi=0,got=0,dmd=0;

cout<<"\nEnter the playercode whose record to be modified : ";

cin>>dmd;

int ifdata=1;

file.open("record.dat",ios::in|ios::out|ios::binary);

posi=file.tellg();

while(file)

{ file.read((char\*)&d,sizeof(d));

got=d.getplayercode();

if(dmd==got)

{file.seekg(posi);

d.modify\_data();

ifdata=2;

file.write((char\*)&d,sizeof(d));

break;

}

posi=file.tellg();

}

file.close();

if(ifdata==1)

{cout<<"\n Data not available for modification ";

}

}

//\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* DELETE RECORD\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

void delete\_record()

{

int pointer=0,remove\_record=0,size=0,code\_get=0;

size=sizeof(file);

cout<<"\n Enter the player code whose record to be deleated : ";

cin>>remove\_record;

file.open("record.dat",ios::in|ios::out|ios::binary); file1.open("tempo.dat",ios::in|ios::out|ios::binary);

file.seekg(0);

while(file)

{

file.read((char\*)&d,sizeof(d));

code\_get=d.getplayercode();

if(remove\_record==code\_get)

{cout<<" ";

}

else

{ file1.write((char\*)&d,sizeof(d));

}

}

file.close();

file1.close();

remove("record.dat");

rename("tempo.dat","record.dat");

}

void play1();

void play2();

void teamrec(char t[]);

//\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

void play1()

{

clrscr();

int choice;

char ans='n';

cout<<"\n WOW!(-: GOOD BEGINING. \n YOU HAVE WON THE TOSS";

team1();

cout<<::t1<<"\n HAS WON THE TOSS AND ELECTED TO BAT FIRST";

do

{

cout<<"\n=\*=\*=\*=\*=\*=\*=\*=\*=\* PLAYER RECORD KEEPING SYSTEM "<<t1<<" \*=\*=\*=\*=\*=\*=\*=\*=\*=\*";

cout<<"\n 1.INSERT RECORD \n 2.DISPLAY RCEORD \n 3.SEARCH RECORD \n 4.MODIFY RECORD \n 5.HIGHEST RUNS \n 6.DELETE PREVIOUS ENTERED RECORD \n 7.ENTER TEAM RECORD \n 8.VIEW TEAM DETAILS \n 9.EXIT ";

cout<<"\n Enter any one of the options : ";

cin>>choice;

switch(choice)

{case 1: insert();

break;

case 2: display();

break;

case 3: search();

break;

case 4: modify();

break;

case 5: highest();

break;

case 6: delete\_record();

break;

case 7: teamrec(t1);

break;

case 8: team1();

break;

case 9:play2();

break;

default: cout<<"\n Enter choice between 1 to 9 ";

}

cout<<"\n Do you want to choose any other option ? :(y/n): ";

cin>>ans;

}while(ans=='y'||ans=='Y');

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void play2()

{

clrscr();

int choice;

char ans='n';

cout<<"\n WOW!(-: GOOD BEGINING. \n YOU HAVE WON THE TOSS";

team2();

cout<<::t2<<" HAS WON THE TOSS AND ELECTED TO BAT FIRST";

do

{

cout<<"\n=\*=\*=\*=\*=\*=\*=\*=\*=\* PLAYER RECORD KEEPING SYSTEM "<<t2<<" \*=\*=\*=\*=\*=\*=\*=\*=\*=\*";

cout<<"\n 1.INSERT RECORD \n 2.DISPLAY RCEORD \n 3.SEARCH RECORD \n 4.MODIFY RECORD \n 5.HIGHEST RUNS \n 6.DELETE PREVIOUS ENTERED RECORD \n 7.ENTER TEAM RECORD \n 8.VIEW TEAM DETAILS \n 9.EXIT ";

cout<<"\n Enter any one of the options : ";

cin>>choice;

switch(choice)

{case 1: insert();

break;

case 2: display();

break;

case 3: search();

break;

case 4: modify();

break;

case 5: highest();

break;

case 6: delete\_record();

break;

case 7: teamrec(t2);

break;

case 8: team1();

break;

case 9:play1();

break;

default: cout<<"\n Enter choice between 1 to 9 ";

}

cout<<"\n Do you want to choose any other option ? :(y/n): ";

cin>>ans;

clrscr();

}while(ans=='y'||ans=='Y');

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void front()

{

int k,i,j;

for(k=0;k<2;k++)

{

for(i=0;i<10;i++)

{

cout<<"\n";

for(j=0;j<20;j++)

{

if(i<j||j>10-i)

cout<<" ";

else

cout<<"\*";

}

}

cout<<"\n\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*="; }

cout<<"\n \n ++++++++++++++++++++++++++++++++++++||| CRICKET |||+++++++++++++++++++++++++++";

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

char second()

{

clrscr();

char y;

ofstream ifile("matchdet.txt",ios::out);

char date[20],place[20];

cout<<"\n \t \t \t ------------------------" ;

cout<<"\n \t \t \t -----WELCOME-----" ;

cout<<"\n \t \t \t ------------------------" ;

cout<<"\n \t \*ENTER THE FIRST TEAM ";

gets(t1);

ifile<<"\n TEAM\_1--"<<t1;

cout<<"\n \t \*ENTER THE SECOND TEAM ";

gets(t2);

ifile<<"\n TEAM\_2--"<<t2;

cout<<"\n \t \*ENTER THE PLACE ";

gets(place);

ifile<<"\n PLACE--"<<place;

cout<<"\n \t \*ENTER THE DATE ";

gets(date);

ifile<<"\n DATE--"<<date;

ifile.close();

cout<<"\n \t \t \t \t press enter to continue ";

y=begining(t1,t2);

return(y);

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

char begining(char t1[],char t2[])

{

clrscr();

char s;

cout<<"\n \n \t \t "<<t1<<" Vs "<<t2<<"\n";

cout<<"\n \n";

ifstream ifile("matchdet.txt",ios::in);

ifile.seekg(0,ios::beg);

char ch[20];

while(!ifile.eof())

{cout<<"\n \t \t ";

ifile>>ch;

puts(ch);

cout<<"\n--------------------------------------------------------" ;

}

ifile.close();

cout<<"\n \t \t WOW! \n THE CLIMATE IS AWESOME.\n NOW IT WOULD BE A GOOD MATCH BETWEEN TWO GOOD TEAMS. \n LETS MOVE ON TO THE TOSS, PRESS E TO TOSS";

cin>>s;

return(s);

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

int toss()

{

clrscr();

randomize();

int t=2,h;

char chance[2],F;

chance[0]='T';

chance[1]='H';

h=random(t);

cout<<"\n \t THE CALL IS FOR TEAM 1.\n \n \t \t DO YOU WANT HEAD(H) OR TAIL(T) ";

cin>>F;

if(F==chance[h])

{cout<<"\n WOW!(-: GOOD BEGINING. \n YOU HAVE WON THE TOSS";

team1();

team2();

return(1);

}

else

{cout<<"\n OOPS! )-: YOU HAVE LOST THE TOSS";

team1();

team2();

return(2);

}

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void team1()

{

cout<<"\n PLAYERS IN "<<::t1;

char ch[20];

ifstream ifile("players1.txt",ios::in);

while(!ifile.eof())

{ifile>>ch;

cout<<"\n";

puts(ch);

}

ifile.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void team2()

{

cout<<"\n PLAYERS IN "<<::t2;

char ch[20];

ifstream ifile("players2.txt",ios::in);

while(!ifile.eof())

{ifile>>ch;

cout<<"\n ";

puts(ch);

}

ifile.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void teamrec(char l[])

{

ofstream ifile(l,ios::out);

int trn,ovr,boundaries,dot,wick;

cout<<"\n \t -\*ENTER THE TOTAL RUNS ";

cin>>trn;

ifile<<trn;

cout<<"\n \t -\*ENTER THE NO. OF OVERS PLAYED ";

cin>>ovr;

ifile<<"\n OVERS--"<<ovr;

cout<<"\n \t -\*ENTER THE NO. OF BONDARIES ";

cin>>boundaries;

ifile<<"\n BOUNDARIES--"<<boundaries;

cout<<"\n \t -\*ENTER THE NO.OF DOTS ";

cin>>dot;

ifile<<"\n DOTS--"<<dot;

cout<<"\n \t -\*ENTER THE NO.OF WICKETS ";

cin>>wick;

float h=(trn/ovr);

cout<<"\n \t -\*RUN RATE"<<h;

ifile<<"\n \t -\* WICKETS--"<<wick;

ifile.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void trophy()

{

cout<<"\n (\*\*\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*=\*\*\*) ";

cout<<"\n -############## INDIA ##############- ";

cout<<"\n -############## 2018 ##############- ";

cout<<"\n ------------------------------ ";

cout<<"\n ########## ";

cout<<"\n ########## ";

cout<<"\n ########## ";

cout<<"\n ############ ";

cout<<"\n ######################### ";

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void sresult(char x[])

{

clrscr();

trophy();

char ch[21];

ifstream ifile(x,ios::in);

cout<<"\n \n \t \t HURRAY! MATCH WON BY "<<x;

while(!ifile.eof())

{ifile>>ch;

puts(ch);

}

ifile.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void tresult(char x[],char y[]=’\0’)

{

trophy();

cout<<"\n \n \n \t \t MATCH TIED";

char ch[21];

ifstream ifile(x,ios::in);

ifstream ofile(y,ios::in);

while(!ifile.eof())

{ifile>>ch;

puts(ch);

}

ifile.close();

while(!ofile.eof())

{ifile>>ch;

puts(ch);

}

ofile.close();

}

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

void result()

{

ifstream ifile(t1,ios::in);

ifstream ofile(t2,ios::in);

int r1,r2;

ifile>>r1;

ofile>>r2;

if(r1>r2)

sresult(t1);

else

if(r1<r2)

sresult(t2);

else

if(r1==r2)

tresult(t1,t2);

}

void main()

{

clrscr();

char m,f;

front();

cout<<"\t \t \t \t press M to continue ";

cin>>m;

if(m=='M'||m=='m')

{

f=second();

if(f=='E'||f=='e')

{if(toss()==1)

{

play1();

play2();}

else

{

play2();

play1();}

}

}

result();

cout<<"\n ----------------------------------------THANK YOU! ----------------------------------------";

getch();

}