My Project

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Class Documentation

Boys Class Reference

Detailed Description

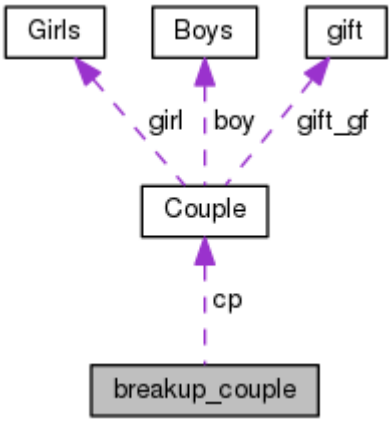
The documentation for this class was generated from the following file:

1 Boys.java

breakup_couple Class Reference

Contain breakup details.

Collaboration diagram for breakup_couple:



IMAGE

Detailed Description

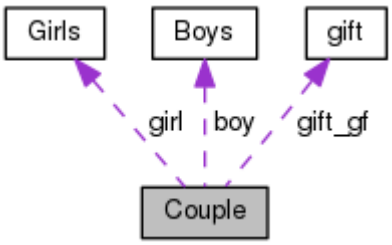
Contain breakup details.

The documentation for this class was generated from the following file:

2 breakup_couple.java

Couple Class Reference

Collaboration diagram for Couple:



IMAGE

Detailed Description

The documentation for this class was generated from the following file:

3 Couple.java

---

csv_gen Class Reference

Detailed Description

The documentation for this class was generated from the following file:

4 csv_gen.java

---

gift Class Reference

Detailed Description

The documentation for this class was generated from the following file:

5 gift.java

Girls Class Reference

Detailed Description

The documentation for this class was generated from the following file:
6 Girls.java

MyLogger Class Reference

Detailed Description

The documentation for this class was generated from the following file:
7 MyLogger.java

q6 Class Reference

Main class q4.

Static Public Member Functions

static void main (String args[]) throws IOException

Detailed Description

Main class q4.

Member Function Documentation

static void q6.main (String *args*[]) throws IOException[static]

Sorting Gift according to price

```
 8                                                                {
 9         int i,j;
10         i=0;
11         j=0;
12         int m=0;
13         Boys b[] = new Boys[1000];
14         csv_gen csv_files = new csv_gen();
15         csv_files.csv();
16         String csvFile = "boy.csv";
17         File out=new File("log.log");
18         String line = "";
19         String csvSplit = ",";
20         BufferedReader buff = null;
21         try{
22             buff = new BufferedReader(new FileReader(csvFile));
23             while((line = buff.readLine() )!= null){
24                 String[] boys_table = line.split(csvSplit);
25
26                 b[i] = new Boys();
27                 b[i].name = boys_table[0];
28                 b[i].intelligence = Integer.parseInt(boys_table[1]);
29                 b[i].attractivness = Integer.parseInt(boys_table[2]);
30                 b[i].min_attr_req = Integer.parseInt(boys_table[3]);
31                 b[i].budget = Integer.parseInt(boys_table[4]);
32                 b[i].status = boys_table[5];
33                 b[i].boy_type= boys_table[6];
34                 b[i].girlf="";
35                 b[i].happiness_boy = 0;
36                 i++;
```

```
            }
        }

        catch(FileNotFoundException e){
            e.printStackTrace();
        }catch(IOException e){
            e.printStackTrace();
        }

        Girls g[] = new Girls[1000];
        csvFile = "girl.csv";
        line = "";
        csvSplit = ",";
        buff = null;


        try{
            buff = new BufferedReader(new FileReader(csvFile));
            while((line = buff.readLine() )!= null){
                String[] girls_table = line.split(csvSplit);

                g[j] = new Girls();
                g[j].name = girls_table[0];
                g[j].attar = Integer.parseInt(girls_table[1]);
                g[j].expense = Integer.parseInt(girls_table[2]);
                g[j].intelligence = Integer.parseInt(girls_table[3]);
                g[j].status = girls_table[4];
                g[j].girl_type = girls_table[5];
                g[j].boyf = "";
                g[j].happiness_girl= 0;

                j++;
            }
        }
        catch(FileNotFoundException e){
            e.printStackTrace();
        }catch(IOException e){
            e.printStackTrace();
        }finally{
                if(buff != null){
                    try{
                        buff.close();
                    }catch(IOException e){
                    e.printStackTrace();
                    }
                }
        }


        gift gf[] = new gift[1000];
        csvFile = "gift.csv";
        line = "";
        csvSplit = ",";
        buff = null;


        try{
            buff = new BufferedReader(new FileReader(csvFile));
            while((line = buff.readLine() )!= null){
                String[] gifts_table = line.split(csvSplit);
            //  System.out.println(boy[0] + boy[1] + boy[2] + boy [3]);
                gf[m] = new gift();
                gf[m].gift_name = gifts_table[0];
                gf[m].gift_price = Integer.parseInt(gifts_table[1]);

                gf[m].gift_value = Integer.parseInt(gifts_table[2]);
                gf[m].gift_type = gifts_table[3];

                m++;

            }
        }
        catch(FileNotFoundException e){
            e.printStackTrace();
        }catch(IOException e){
            e.printStackTrace();
        }finally{
```

```
                if(buff != null){
                    try{
                        buff.close();
                    }catch(IOException e){
                    e.printStackTrace();
                    }
                }
        }

        gift tem;
        int m1,n;
        for(m1=0;m1<m;m1++){
            for(n=m1+1;n<m;n++){
                if(gf[m1].gift_price > gf[n].gift_price){
                    tem= gf[m1];
                    gf[m1]=gf[n];
                    gf[n]=tem;
                }
            }
        }



        int count = 0;
        String output = "";
        int c = 0,d = 0;
        Couple gbcouple[] = new Couple[100];
        for(c=0;c<i;c++){
            for(d=0;d<j;d++){
                if(b[c].is_eligible(g[d].expense,g[d].attar) &&
b[c].status.equals("Single") && g[d].status.equals("Single")){
                    b[c].girlf = g[d].name;
                    g[d].boyf = b[c].name;
                    b[c].status = "Is_committed";
                    g[d].status = "Is_committed";
                    count++;
                    String df= new SimpleDateFormat("dd/MM/yy
HH:mm:ss").format(new Time(System.currentTimeMillis()));
                    output =  df+" "+"Boy : "+b[c].name + " is Committed
with " +"Girl : "+g[d].name + "\n" ;
                    System.out.println(output);
                    try(BufferedWriter buffer=new BufferedWriter(new
FileWriter(out,true))){
                        buffer.write(output);

                    }
                    gbcouple[count-1] = new Couple(b[c],g[d]);

                }
            }

        }
        int o;
        int u;
        Random rn = new Random();
        o = rn.nextInt(count);
        Random rand = new Random();
        u = rand.nextInt(30)+1;
        breakup_couple bk = new breakup_couple(gbcouple, count,
o,output,u);// Least n happy couples broke up
        String outp = "";
        outp = bk.break_print();
        for(i =0 ; i < o; i++)
        {
            for(j = 0;  j < 20; j++)
            {
                if(b[j].status == "Single" && gbcouple[i].girl.status ==
"Single"&& !((b[j].name).equals(gbcouple[i].boy.name)) && b[j].budget >=
gbcouple[i].girl.expense && gbcouple[i].girl.attar >= b[j].min_attr_req) {
                    b[j].status = "Is_committed";
                    gbcouple[i].girl.status = "Is_committed";
                    String fd= new SimpleDateFormat("dd/MM/yy
HH:mm:ss").format(new Time(System.currentTimeMillis()));

                    outp = outp.concat("\n"+fd+ " Day "+ 30/u +" "+"New
Commitment : "+gbcouple[i].girl.name +"   and  "+b[j].name+" \n\n");//New
commitments of broke up girls
```

```
  182
  183                     //  System.out.println("New Commitment after break up:
"+gbcouple[i].girl.name +"-"+b[j].name );
  184                         gbcouple[i].boy = b[j];
  185                         break;
  186                 }
  187             }
  188         }
  189         System.out.println(outp);
  190         try(BufferedWriter buffer=new BufferedWriter(new
FileWriter(out,true))){
  191         buffer.write(outp);
  192
  193         }
  194     }
```

The documentation for this class was generated from the following file:

8 q6.java

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