My Project

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Here are the classes, structs, unions and interfaces with brief descriptions:

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Class Documentation

2.1 boy Class Reference

BOY CLASS Contains attributes of boys Attributes like: Name,Intelligence Level,Status(Preference),Attractiveness,budget,Minimum Attraction for girl, Happiness, Relationship status(single/committed)

`#include <boy.h>`

Public Member Functions

- void calc_happiness (int total, girl g)

  Function to calculate happiness.

Public Attributes

- char name [20]

  Name of boy.
- int intel

  Intelligence of boy out of 20.
- int status

  Type of boy (0)Miser (1)Generous (2)Geeky.
- int attr

  Attractiveness of boy out of 20.
- int bud

  Budget of boy range 4000 - 6000.
- int min_attr

  Minimum attractiveness requirement in girl.
- int happ

  Happiness of boy.
- int single

  Relationship status of boy (0-single)

2.1.1 Detailed Description

BOY CLASS Contains attributes of boys Attributes like: Name,Intelligence Level,Status(Preference),Attractiveness,budget,Minimum Attraction for girl, Happiness, Relationship status(single/committed)

2.1.2 Member Function Documentation

2.1.2.1 calc_happiness()

```
void boy::calc_happiness (
            int total,
            girl g )
```

Function to calculate happiness.

Function to calculate happiness of boy

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

- boy.h
- boyhapp.cpp

2.2 couple Class Reference

CLASS COUPLE Contains all attributes and functions of couple.

```
#include <couple.h>
```

Public Member Functions

- void calc_happiness ()
  Function to calculate happiness of couple.
- void calc_comp ()
  Function to calculate compatibility of couple.

Public Attributes

- int happ
  Total happiness of couple.
- int comp
  Total compatibility of couple.
- girl ga
  Object of girl in the relationship.
- boy ba
  Object of boy in the relationship.
- gift gif [100]
  Array of gift objects (To hold all the gift transfers between a couple)

2.2.1 Detailed Description

CLASS COUPLE Contains all attributes and functions of couple.

2.2.2 Member Function Documentation

2.2.2.1 calc_comp()

```
void couple::calc_comp ( )
```

Function to calculate compatibility of couple.

Function to calculate compatibility of couple

2.2.2.2 calc_happiness()

```
void couple::calc_happiness ( )
```

Function to calculate happiness of couple.

Function to calculate happiness of couple

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

- couple.h
- couplehapp.cpp

2.3 gift Class Reference

GIFT CLASS Contains all attributes and functions of gifts.

```
#include <gift.h>
```

Public Attributes

- int type_gift
  Type of gift (0)Essential (1)Luxury (2)Utility.
- int used
  To denote if the gift has been gifted or not 1-Used.
- int price
  Price of the gift.
- int value
  Value of the fift.
- int lux_rating
  Luxury rating (Only for luxury gifts)
- int lux_diff
  Difficulty to find (Only for luxury gifts)
- int util_value
  Utility value (Only for utility gifts)
- int util_class
  Utility class (Only for utility gifts)

2.3.1 Detailed Description

GIFT CLASS Contains all attributes and functions of gifts.

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

- gift.h

2.4 girl Class Reference

GIRL CLASS Contains attributes of girls Attributes like: Name,Intelligence,Attractiveness,maintenance budget,criteria to choose boy, Happiness, Type of girl, Relationship status(single/committed)

`#include <girl.h>`

Public Member Functions

- void calc_happiness (int cost, int value)

  happiness of girl calculator

Public Attributes

- char name [20]

  Name of girl.
- int attr

  Attractiveness of girl out of 20.
- int maint

  Maintenance cost of girl (Range 3000-5000)
- int intel

  Intelligence of girl out of 20.
- int crit

  Criteria of girl to choose a boy (0)Most attractive (1)Most Rich (2)Most Intelligent.
- int status

  Type of girl (0)Choosy (1)Normal (2)Desperate.
- int happ

  Happiness of girl.
- int single

  Relationship status of girl (0 if single)

2.4.1 Detailed Description

GIRL CLASS Contains attributes of girls Attributes like: Name,Intelligence,Attractiveness,maintenance budget,criteria to choose boy, Happiness, Type of girl, Relationship status(single/committed)

2.4.2 Member Function Documentation

2.4.2.1 calc_happiness()

```
void girl::calc_happiness (
            int cost,
            int value )
```

happiness of girl calculator

Function to calculate happiness of girl

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

- girl.h
- girlhapp.cpp

2.5 nec Class Reference

NEC CLASS To asign gifts to couples and print k happiest and compatible couples.

```
#include <q2part1.h>
```

Public Member Functions

- void fun1 (gift g[ ], couple c[ ])

  Function to read value of gifts and couples.
- void fun2 (gift g[ ], couple c[ ], int m, int n)

  Function to assign gifts to couples.
- void fun3 (gift g[ ], couple c[ ], int m, int n)

  Function to print k most compatible and happy couples.

2.5.1 Detailed Description

NEC CLASS To asign gifts to couples and print k happiest and compatible couples.

2.5.2 Member Function Documentation

2.5.2.1 fun1()

```
void nec::fun1 (
            gift g[],
            couple c[] )
```

Function to read value of gifts and couples.

Function to read couples and gifts

2.5.2.2 fun2()

```
void nec::fun2 (
            gift g[],
            couple c[],
            int m,
            int n )
```

Function to assign gifts to couples.

Function to assign gifts to couples

2.5.2.3 fun3()

```
void nec::fun3 (
            gift g[],
            couple c[],
            int m,
            int n )
```

Function to print k most compatible and happy couples.

Function to print k happiest and k most compatible couples

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

- q2part1.h
- q2nec.cpp

2.6 pairing Class Reference

CLASS PAIRING To Pair boys and girls as couples.

`#include <readboygirlq1.h>`

Public Member Functions

- void readboygirl (girl g[ ], boy b[ ])

  Function to read data of girls and boys from file.
- void pair (girl g[ ], boy b[ ], int m, int n)

  Function to pair girls and boys together.

2.6.1 Detailed Description

CLASS PAIRING To Pair boys and girls as couples.

2.6.2 Member Function Documentation

2.6.2.1 pair()

```
void pairing::pair (
             girl g[],
             boy b[],
             int m,
             int n )
```

Function to pair girls and boys together.

Function to pair boys and girls

2.6.2.2 readboygirl()

```
void pairing::readboygirl (
             girl g[],
             boy b[] )
```

Function to read data of girls and boys from file.

Function to read the values of boy and girl

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

- readboygirlq1.h
- readboygirlq1.cpp