

## PPL Assignment - 1

IIT2015017

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# Chapter 1

## Class Index

### 1.1 Class List

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## Chapter 2

# File Index

### 2.1 File List

Here is a list of all files with brief descriptions:

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## Chapter 3

# Class Documentation

### 3.1 Choosy\_girl Class Reference

```
#include <girl_choosy.h>
```

#### Public Member Functions

- [Choosy\\_girl](#) ()
- [Choosy\\_girl](#) (string, int, int, int, int)

#### Public Attributes

- string [name](#)
- int [attractiveness](#)
- int [maintenance](#)
- int [intelligence](#)
- int [selection\\_criteria](#)
- bool [is\\_committed](#)

#### 3.1.1 Detailed Description

Definition at line 7 of file girl\_choosy.h.

#### 3.1.2 Constructor & Destructor Documentation

##### 3.1.2.1 Choosy\_girl() [1/2]

```
Choosy_girl::Choosy_girl ( )
```

Definition at line 4 of file girl\_choosy.cpp.

### 3.1.2.2 Choosy\_girl() [2/2]

```
Choosy_girl::Choosy_girl (  
    string n,  
    int a,  
    int m,  
    int i,  
    int s )
```

Definition at line 8 of file girl\_choosy.cpp.

## 3.1.3 Member Data Documentation

### 3.1.3.1 attractiveness

```
int Choosy_girl::attractiveness
```

Definition at line 12 of file girl\_choosy.h.

### 3.1.3.2 intelligence

```
int Choosy_girl::intelligence
```

Definition at line 16 of file girl\_choosy.h.

### 3.1.3.3 is\_committed

```
bool Choosy_girl::is_committed
```

Definition at line 22 of file girl\_choosy.h.

### 3.1.3.4 maintenance

```
int Choosy_girl::maintenance
```

Definition at line 14 of file girl\_choosy.h.

### 3.1.3.5 name

```
string Choosy_girl::name
```

Definition at line 10 of file girl\_choosy.h.

### 3.1.3.6 selection\_criteria

```
int Choosy_girl::selection_criteria
```

Definition at line 18 of file girl\_choosy.h.

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

- ppl\_assignment/q1/[girl\\_choosy.h](#)
- ppl\_assignment/q1/[girl\\_choosy.cpp](#)

## 3.2 Desperate\_girl Class Reference

```
#include <girl_desperate.h>
```

### Public Member Functions

- [Desperate\\_girl](#) ()
- [Desperate\\_girl](#) (string, int, int, int, int)

### Public Attributes

- string [name](#)
- int [attractiveness](#)
- int [maintenance](#)
- int [intelligence](#)
- int [selection\\_criteria](#)
- bool [is\\_committed](#)

### 3.2.1 Detailed Description

Definition at line 7 of file girl\_desperate.h.

### 3.2.2 Constructor & Destructor Documentation

### 3.2.2.1 Desperate\_girl() [1/2]

```
Desperate_girl::Desperate_girl ( )
```

Definition at line 4 of file girl\_desperate.cpp.

### 3.2.2.2 Desperate\_girl() [2/2]

```
Desperate_girl::Desperate_girl (
    string n,
    int a,
    int m,
    int i,
    int s )
```

Definition at line 9 of file girl\_desperate.cpp.

## 3.2.3 Member Data Documentation

### 3.2.3.1 attractiveness

```
int Desperate_girl::attractiveness
```

Definition at line 12 of file girl\_desperate.h.

### 3.2.3.2 intelligence

```
int Desperate_girl::intelligence
```

Definition at line 16 of file girl\_desperate.h.

### 3.2.3.3 is\_committed

```
bool Desperate_girl::is_committed
```

Definition at line 22 of file girl\_desperate.h.

#### 3.2.3.4 maintenance

```
int Desperate_girl::maintenance
```

Definition at line 14 of file girl\_desperate.h.

#### 3.2.3.5 name

```
string Desperate_girl::name
```

Definition at line 10 of file girl\_desperate.h.

#### 3.2.3.6 selection\_criteria

```
int Desperate_girl::selection_criteria
```

Definition at line 18 of file girl\_desperate.h.

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

- ppl\_assignment/q1/[girl\\_desperate.h](#)
- ppl\_assignment/q1/[girl\\_desperate.cpp](#)

## 3.3 Geek\_boy Class Reference

```
#include <boy_geek.h>
```

### Public Member Functions

- [Geek\\_boy](#) ()
- [Geek\\_boy](#) (string, int, int, int, int)

### Public Attributes

- string [name](#)
- int [attractiveness](#)
- int [intelligence](#)
- int [budget](#)
- int [min\\_attraction\\_of\\_girl](#)
- bool [is\\_committed](#)

### 3.3.1 Detailed Description

Definition at line 6 of file boy\_geek.h.

### 3.3.2 Constructor & Destructor Documentation

#### 3.3.2.1 `Geek_boy()` [1/2]

```
Geek_boy::Geek_boy ( )
```

Definition at line 4 of file boy\_geek.cpp.

#### 3.3.2.2 `Geek_boy()` [2/2]

```
Geek_boy::Geek_boy (
    string n,
    int a,
    int i,
    int b,
    int m )
```

Definition at line 8 of file boy\_geek.cpp.

### 3.3.3 Member Data Documentation

#### 3.3.3.1 `attractiveness`

```
int Geek_boy::attractiveness
```

Definition at line 11 of file boy\_geek.h.

#### 3.3.3.2 `budget`

```
int Geek_boy::budget
```

Definition at line 15 of file boy\_geek.h.



#### 3.3.3.3 intelligence

```
int Geek_boy::intelligence
```

Definition at line 13 of file boy\_geek.h.

#### 3.3.3.4 is\_committed

```
bool Geek_boy::is_committed
```

Definition at line 19 of file boy\_geek.h.

#### 3.3.3.5 min\_attraction\_of\_girl

```
int Geek_boy::min_attraction_of_girl
```

Definition at line 17 of file boy\_geek.h.

#### 3.3.3.6 name

```
string Geek_boy::name
```

Definition at line 9 of file boy\_geek.h.

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

- [ppl\\_assignment/q1/boy\\_geek.h](#)
- [ppl\\_assignment/q1/boy\\_geek.cpp](#)

## 3.4 Generous\_boy Class Reference

```
#include <boy_generous.h>
```

### Public Member Functions

- [Generous\\_boy \(\)](#)
- [Generous\\_boy \(string, int, int, int, int\)](#)

## Public Attributes

- string `name`
- int `attractiveness`
- int `intelligence`
- int `budget`
- int `min_attraction_of_girl`
- bool `is_committed`

### 3.4.1 Detailed Description

Definition at line 6 of file `boy_generous.h`.

### 3.4.2 Constructor & Destructor Documentation

#### 3.4.2.1 `Generous_boy()` [1/2]

```
Generous_boy::Generous_boy ( )
```

Definition at line 4 of file `boy_generous.cpp`.

#### 3.4.2.2 `Generous_boy()` [2/2]

```
Generous_boy::Generous_boy (
    string n,
    int a,
    int i,
    int b,
    int m )
```

Definition at line 9 of file `boy_generous.cpp`.

### 3.4.3 Member Data Documentation

#### 3.4.3.1 `attractiveness`

```
int Generous_boy::attractiveness
```

Definition at line 11 of file `boy_generous.h`.

#### 3.4.3.2 budget

```
int Generous_boy::budget
```

Definition at line 15 of file boy\_generous.h.

#### 3.4.3.3 intelligence

```
int Generous_boy::intelligence
```

Definition at line 13 of file boy\_generous.h.

#### 3.4.3.4 is\_committed

```
bool Generous_boy::is_committed
```

Definition at line 19 of file boy\_generous.h.

#### 3.4.3.5 min\_attraction\_of\_girl

```
int Generous_boy::min_attraction_of_girl
```

Definition at line 17 of file boy\_generous.h.

#### 3.4.3.6 name

```
string Generous_boy::name
```

Definition at line 9 of file boy\_generous.h.

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

- [ppl\\_assignment/q1/boy\\_generous.h](#)
- [ppl\\_assignment/q1/boy\\_generous.cpp](#)

## 3.5 Miser\_boy Class Reference

```
#include <boy_miser.h>
```

## Public Member Functions

- [Miser\\_boy](#) ()
- [Miser\\_boy](#) (string, int, int, int, int)

## Public Attributes

- string [name](#)
- int [attractiveness](#)
- int [intelligence](#)
- int [budget](#)
- int [min\\_attraction\\_of\\_girl](#)
- bool [is\\_committed](#)

### 3.5.1 Detailed Description

Definition at line 6 of file boy\_miser.h.

### 3.5.2 Constructor & Destructor Documentation

#### 3.5.2.1 [Miser\\_boy\(\)](#) [1/2]

```
Miser_boy::Miser_boy ( )
```

Definition at line 4 of file boy\_miser.cpp.

#### 3.5.2.2 [Miser\\_boy\(\)](#) [2/2]

```
Miser_boy::Miser_boy (
    string n,
    int a,
    int i,
    int b,
    int m )
```

Definition at line 9 of file boy\_miser.cpp.

### 3.5.3 Member Data Documentation

#### 3.5.3.1 attractiveness

```
int Miser_boy::attractiveness
```

Definition at line 11 of file boy\_miser.h.

#### 3.5.3.2 budget

```
int Miser_boy::budget
```

Definition at line 15 of file boy\_miser.h.

#### 3.5.3.3 intelligence

```
int Miser_boy::intelligence
```

Definition at line 13 of file boy\_miser.h.

#### 3.5.3.4 is\_committed

```
bool Miser_boy::is_committed
```

Definition at line 19 of file boy\_miser.h.

#### 3.5.3.5 min\_attraction\_of\_girl

```
int Miser_boy::min_attraction_of_girl
```

Definition at line 17 of file boy\_miser.h.

#### 3.5.3.6 name

```
string Miser_boy::name
```

Definition at line 9 of file boy\_miser.h.

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

- [ppl\\_assignment/q1/boy\\_miser.h](#)
- [ppl\\_assignment/q1/boy\\_miser.cpp](#)

## 3.6 Normal\_girl Class Reference

```
#include <girl_normal.h>
```

### Public Member Functions

- [Normal\\_girl\(\)](#)
- [Normal\\_girl](#)(string, int, int, int, int)

### Public Attributes

- string [name](#)
- int [attractiveness](#)
- int [maintenance](#)
- int [intelligence](#)
- int [selection\\_criteria](#)
- bool [is\\_committed](#)

### 3.6.1 Detailed Description

Definition at line 7 of file girl\_normal.h.

### 3.6.2 Constructor & Destructor Documentation

#### 3.6.2.1 Normal\_girl() [1/2]

```
Normal_girl::Normal_girl ( )
```

Definition at line 4 of file girl\_normal.cpp.

#### 3.6.2.2 Normal\_girl() [2/2]

```
Normal_girl::Normal_girl (
    string n,
    int a,
    int m,
    int i,
    int s )
```

Definition at line 8 of file girl\_normal.cpp.

### 3.6.3 Member Data Documentation

#### 3.6.3.1 attractiveness

```
int Normal_girl::attractiveness
```

Definition at line 12 of file girl\_normal.h.

#### 3.6.3.2 intelligence

```
int Normal_girl::intelligence
```

Definition at line 16 of file girl\_normal.h.

#### 3.6.3.3 is\_committed

```
bool Normal_girl::is_committed
```

Definition at line 22 of file girl\_normal.h.

#### 3.6.3.4 maintenance

```
int Normal_girl::maintenance
```

Definition at line 14 of file girl\_normal.h.

#### 3.6.3.5 name

```
string Normal_girl::name
```

Definition at line 10 of file girl\_normal.h.

#### 3.6.3.6 selection\_criteria

```
int Normal_girl::selection_criteria
```

Definition at line 18 of file girl\_normal.h.

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

- [ppl\\_assignment/q1/girl\\_normal.h](#)
- [ppl\\_assignment/q1/girl\\_normal.cpp](#)





## Chapter 4

# File Documentation

### 4.1 ppl\_assignment/q1/additional\_functions.cpp File Reference

```
#include "additional_functions.h"  
#include <bits/stdc++.h>
```

#### Functions

- void [generate\\_input](#) ()
- void [read\\_input\\_and\\_pair](#) ([Choosy\\_girl](#) g1[50], [Normal\\_girl](#) g2[50], [Desperate\\_girl](#) g3[50], [Miser\\_boy](#) b1[100], [Generous\\_boy](#) b2[100], [Geek\\_boy](#) b3[100], vector< pair< string, string > > \*couples)
- void [print\\_couples](#) (vector< pair< string, string > > couples)
- void [print\\_k\\_happiest](#) (Couple c[50], int cnt)
- void [print\\_k\\_most\\_compatible](#) (Couple c[50], int cnt)

#### 4.1.1 Function Documentation

##### 4.1.1.1 generate\_input()

```
void generate_input ( )
```

Definition at line 8 of file additional\_functions.cpp.

##### 4.1.1.2 print\_couples()

```
void print_couples (  
    vector< pair< string, string > > couples )
```

Definition at line 433 of file additional\_functions.cpp.

#### 4.1.1.3 print\_k\_happiest()

```
void print_k_happiest (
    Couple c[50],
    int cnt )
```

Definition at line 449 of file additional\_functions.cpp.

#### 4.1.1.4 print\_k\_most\_compatible()

```
void print_k_most_compatible (
    Couple c[50],
    int cnt )
```

Definition at line 473 of file additional\_functions.cpp.

#### 4.1.1.5 read\_input\_and\_pair()

```
void read_input_and_pair (
    Choosy_girl g1[50],
    Normal_girl g2[50],
    Desperate_girl g3[50],
    Miser_boy b1[100],
    Generous_boy b2[100],
    Geek_boy b3[100],
    vector< pair< string, string > > * couples )
```

Definition at line 53 of file additional\_functions.cpp.

## 4.2 ppl\_assignment/q1/additional\_functions.h File Reference

## 4.3 ppl\_assignment/q1/additional\_functions\_2.cpp File Reference

```
#include "additional_functions.h"
#include <bits/stdc++.h>
```

### Functions

- void [generate\\_input\\_2](#) ()
- int [give\\_gifts](#) (int b\_type, int g\_type, string b\_name, string g\_name, Essential\_gift gt1[250], Luxury\_gift gt2[250], Utility\_gift gt3[250], Couple c[50], int maintenance, int budget, int c\_cnt, int cnt\_gt1, int cnt\_gt2, int cnt\_gt3, int intel)
- void [read\\_pairup\\_and\\_gift](#) (Choosy\_girl g1[50], Normal\_girl g2[50], Desperate\_girl g3[50], Miser\_boy b1[100], Generous\_boy b2[100], Geek\_boy b3[100], Essential\_gift gt1[250], Luxury\_gift gt2[250], Utility\_gift gt3[250], Couple c[50], int \*couple\_count)

### 4.3.1 Function Documentation

#### 4.3.1.1 generate\_input\_2()

```
void generate_input_2 ( )
```

Definition at line 5 of file additional\_functions\_2.cpp.

#### 4.3.1.2 give\_gifts()

```
int give_gifts (
    int b_type,
    int g_type,
    string b_name,
    string g_name,
    Essential_gift gt1[250],
    Luxury_gift gt2[250],
    Utility_gift gt3[250],
    Couple c[50],
    int maintenance,
    int budget,
    int c_cnt,
    int cnt_gt1,
    int cnt_gt2,
    int cnt_gt3,
    int intel )
```

Definition at line 77 of file additional\_functions\_2.cpp.

#### 4.3.1.3 read\_pairup\_and\_gift()

```
void read_pairup_and_gift (
    Choosy_girl g1[50],
    Normal_girl g2[50],
    Desperate_girl g3[50],
    Miser_boy b1[100],
    Generous_boy b2[100],
    Geek_boy b3[100],
    Essential_gift gt1[250],
    Luxury_gift gt2[250],
    Utility_gift gt3[250],
    Couple c1[50],
    int * couple_count )
```

Definition at line 390 of file additional\_functions\_2.cpp.

#### 4.4 ppl\_assignment/q1/additional\_functions\_2.h File Reference

#### 4.5 ppl\_assignment/q1/boy\_geek.cpp File Reference

```
#include "boy_geek.h"  
#include <string>
```

#### 4.6 ppl\_assignment/q1/boy\_geek.h File Reference

```
#include <string>
```

##### Classes

- class [Geek\\_boy](#)

#### 4.7 ppl\_assignment/q1/boy\_generous.cpp File Reference

```
#include "boy_generous.h"  
#include <string>
```

#### 4.8 ppl\_assignment/q1/boy\_generous.h File Reference

```
#include <string>
```

##### Classes

- class [Generous\\_boy](#)

#### 4.9 ppl\_assignment/q1/boy\_miser.cpp File Reference

```
#include "boy_miser.h"  
#include <string>
```

#### 4.10 ppl\_assignment/q1/boy\_miser.h File Reference

```
#include <string>
```

## Classes

- class [Miser\\_boy](#)

## 4.11 ppl\_assignment/q1/girl\_choosy.cpp File Reference

```
#include "girl_choosy.h"  
#include <string>
```

## 4.12 ppl\_assignment/q1/girl\_choosy.h File Reference

```
#include <string>
```

## Classes

- class [Choosy\\_girl](#)

## 4.13 ppl\_assignment/q1/girl\_desperate.cpp File Reference

```
#include "girl_desperate.h"  
#include <string>
```

## 4.14 ppl\_assignment/q1/girl\_desperate.h File Reference

```
#include <string>
```

## Classes

- class [Desperate\\_girl](#)

## 4.15 ppl\_assignment/q1/girl\_normal.cpp File Reference

```
#include "girl_normal.h"  
#include <string>
```

## 4.16 ppl\_assignment/q1/girl\_normal.h File Reference

```
#include <string>
```

### Classes

- class [Normal\\_girl](#)

## 4.17 ppl\_assignment/q1/q1.cpp File Reference

```
#include <bits/stdc++.h>
#include "girl_choosy.h"
#include "girl_normal.h"
#include "girl_desperate.h"
#include "boy_miser.h"
#include "boy_generous.h"
#include "boy_geek.h"
#include "additional_functions.h"
```

### Functions

- int [main](#) ()

### 4.17.1 Function Documentation

#### 4.17.1.1 main()

```
int main ( )
```

Definition at line 11 of file q1.cpp.