

PPL

IIT2015013

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Chapter 1

ppl-assignment-aditya1605

ppl-assignment-aditya1605 created by GitHub Classroom

NAME - ADITYA SAPRA

ROLL NO. IIT2015013

run question 1 using "g++ q1.cpp miser.cpp generous.cpp geek.cpp desperate.cpp normal.cpp choosy.cpp utility.↔
cpp"

run question 2 using "g++ q2.cpp gift_dist.cpp gifts.cpp couple.cpp"

Chapter 2

Class Index

2.1 Class List

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

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Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

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Chapter 4

Class Documentation

4.1 choosy Class Reference

```
#include <choosy.h>
```

Public Member Functions

- [choosy](#) (string name, int att, int inte, int bud, int pref)
- string [get_name](#) ()
- int [get_attractiveness](#) ()
- int [get_intelligence](#) ()
- int [get_status](#) ()
- int [get_maintenance](#) ()
- int [get_preference](#) ()
- void [set_status](#) (int stat)

4.1.1 Detailed Description

Definition at line 5 of file choosy.h.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 choosy()

```
choosy::choosy (  
    string name,  
    int att,  
    int inte,  
    int bud,  
    int pref )
```

Definition at line 3 of file choosy.cpp.

4.1.3 Member Function Documentation

4.1.3.1 `get_attractiveness()`

```
int choosy::get_attractiveness ( )
```

Definition at line 14 of file choosy.cpp.

4.1.3.2 `get_intelligence()`

```
int choosy::get_intelligence ( )
```

Definition at line 18 of file choosy.cpp.

4.1.3.3 `get_maintenance()`

```
int choosy::get_maintenance ( )
```

Definition at line 21 of file choosy.cpp.

4.1.3.4 `get_name()`

```
string choosy::get_name ( )
```

Definition at line 11 of file choosy.cpp.

4.1.3.5 `get_preference()`

```
int choosy::get_preference ( )
```

Definition at line 27 of file choosy.cpp.

4.1.3.6 get_status()

```
int choosy::get_status ( )
```

Definition at line 24 of file choosy.cpp.

4.1.3.7 set_status()

```
void choosy::set_status (
    int stat )
```

Definition at line 30 of file choosy.cpp.

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

- /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/[choosy.h](#)
- /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/[choosy.cpp](#)

4.2 couple Class Reference

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

Public Member Functions

- [couple](#) (string boy_name, string girl_name, int happiness, int compatibility)
- string [get_boy_name](#) ()
- string [get_girl_name](#) ()
- int [get_happiness](#) ()
- int [get_compatibility](#) ()

4.2.1 Detailed Description

Definition at line 5 of file couple.h.

4.2.2 Constructor & Destructor Documentation

4.2.2.1 couple()

```
couple::couple (
    string boy_name,
    string girl_name,
    int happiness,
    int compatibility )
```

Definition at line 3 of file couple.cpp.

4.2.3 Member Function Documentation

4.2.3.1 `get_boy_name()`

```
string couple::get_boy_name ( )
```

Definition at line 9 of file couple.cpp.

4.2.3.2 `get_compatibility()`

```
int couple::get_compatibility ( )
```

Definition at line 18 of file couple.cpp.

4.2.3.3 `get_girl_name()`

```
string couple::get_girl_name ( )
```

Definition at line 12 of file couple.cpp.

4.2.3.4 `get_happiness()`

```
int couple::get_happiness ( )
```

Definition at line 15 of file couple.cpp.

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

- [/Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/couple.h](#)
- [/Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/couple.cpp](#)

4.3 desperate Class Reference

```
#include <desperate.h>
```

Public Member Functions

- [desperate](#) (string name, int att, int inte, int bud, int pref)
- string [get_name](#) ()
- int [get_attractiveness](#) ()
- int [get_intelligence](#) ()
- int [get_status](#) ()
- int [get_maintenance](#) ()
- int [get_preference](#) ()
- void [set_status](#) (int stat)

4.3.1 Detailed Description

Definition at line 5 of file desperate.h.

4.3.2 Constructor & Destructor Documentation

4.3.2.1 desperate()

```
desperate::desperate (  
    string name,  
    int att,  
    int inte,  
    int bud,  
    int pref )
```

Definition at line 3 of file desperate.cpp.

4.3.3 Member Function Documentation

4.3.3.1 get_attractiveness()

```
int desperate::get_attractiveness ( )
```

Definition at line 14 of file desperate.cpp.

4.3.3.2 get_intelligence()

```
int desperate::get_intelligence ( )
```

Definition at line 18 of file desperate.cpp.

4.3.3.3 get_maintenance()

```
int desperate::get_maintenance ( )
```

Definition at line 21 of file desperate.cpp.

4.3.3.4 get_name()

```
string desperate::get_name ( )
```

Definition at line 11 of file desperate.cpp.

4.3.3.5 get_preference()

```
int desperate::get_preference ( )
```

Definition at line 27 of file desperate.cpp.

4.3.3.6 get_status()

```
int desperate::get_status ( )
```

Definition at line 24 of file desperate.cpp.

4.3.3.7 set_status()

```
void desperate::set_status (
    int stat )
```

Definition at line 30 of file desperate.cpp.

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

- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[desperate.h](#)
- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[desperate.cpp](#)

4.4 geek Class Reference

```
#include <geek.h>
```

Public Member Functions

- [geek](#) (string name, int att, int inte, int bud, int req)
- string [get_name](#) ()
- int [get_attractiveness](#) ()
- int [get_intelligence](#) ()
- int [get_budget](#) ()
- int [get_status](#) ()
- int [get_att_req](#) ()
- void [set_status](#) (int stat)

4.4.1 Detailed Description

Definition at line 5 of file geek.h.

4.4.2 Constructor & Destructor Documentation

4.4.2.1 [geek\(\)](#)

```
geek::geek (  
    string name,  
    int att,  
    int inte,  
    int bud,  
    int req )
```

Definition at line 3 of file geek.cpp.

4.4.3 Member Function Documentation

4.4.3.1 [get_att_req\(\)](#)

```
int geek::get_att_req ( )
```

Definition at line 27 of file geek.cpp.

4.4.3.2 [get_attractiveness\(\)](#)

```
int geek::get_attractiveness ( )
```

Definition at line 14 of file geek.cpp.

4.4.3.3 get_budget()

```
int geek::get_budget ( )
```

Definition at line 21 of file geek.cpp.

4.4.3.4 get_intelligence()

```
int geek::get_intelligence ( )
```

Definition at line 18 of file geek.cpp.

4.4.3.5 get_name()

```
string geek::get_name ( )
```

Definition at line 11 of file geek.cpp.

4.4.3.6 get_status()

```
int geek::get_status ( )
```

Definition at line 24 of file geek.cpp.

4.4.3.7 set_status()

```
void geek::set_status (
    int stat )
```

Definition at line 31 of file geek.cpp.

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

- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[geek.h](#)
- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[geek.cpp](#)

4.5 generous Class Reference

```
#include <generous.h>
```

Public Member Functions

- [generous](#) (string name, int att, int inte, int bud, int req)
- string [get_name](#) ()
- int [get_attractiveness](#) ()
- int [get_intelligence](#) ()
- int [get_budget](#) ()
- int [get_status](#) ()
- int [get_att_req](#) ()
- void [set_status](#) (int stat)

4.5.1 Detailed Description

Definition at line 5 of file generous.h.

4.5.2 Constructor & Destructor Documentation

4.5.2.1 generous()

```
generous::generous (
    string name,
    int att,
    int inte,
    int bud,
    int req )
```

Definition at line 3 of file generous.cpp.

4.5.3 Member Function Documentation

4.5.3.1 get_att_req()

```
int generous::get_att_req ( )
```

Definition at line 27 of file generous.cpp.

4.5.3.2 get_attractiveness()

```
int generous::get_attractiveness ( )
```

Definition at line 14 of file generous.cpp.

4.5.3.3 get_budget()

```
int generous::get_budget ( )
```

Definition at line 21 of file generous.cpp.

4.5.3.4 get_intelligence()

```
int generous::get_intelligence ( )
```

Definition at line 18 of file generous.cpp.

4.5.3.5 get_name()

```
string generous::get_name ( )
```

Definition at line 11 of file generous.cpp.

4.5.3.6 get_status()

```
int generous::get_status ( )
```

Definition at line 24 of file generous.cpp.

4.5.3.7 set_status()

```
void generous::set_status (
    int stat )
```

Definition at line 31 of file generous.cpp.

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

- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[generous.h](#)
- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[generous.cpp](#)

4.6 gift_dist Class Reference

```
#include <gift_dist.h>
```


Friends

- void [dist](#) (vector< [gifts](#) > &gif, vector< [couple](#) > &cp)

4.6.1 Detailed Description

Definition at line 7 of file gift_dist.h.

4.6.2 Friends And Related Function Documentation

4.6.2.1 dist

```
void dist (  
    vector< gifts > & gif,  
    vector< couple > & cp ) [friend]
```

Definition at line 7 of file gift_dist.cpp.

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

- /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/[gift_dist.h](#)

4.7 gifts Class Reference

```
#include <gifts.h>
```

Public Member Functions

- [gifts](#) (string name, int price, int value, int att_1, int att_2, int type)
- string [get_name](#) ()
- int [get_price](#) ()
- int [get_value](#) ()
- int [get_att_1](#) ()
- int [get_att_2](#) ()
- int [get_type](#) ()
- int [get_alloc_status](#) ()
- void [set_alloc_status](#) (int stat)

4.7.1 Detailed Description

Definition at line 5 of file gifts.h.

4.7.2 Constructor & Destructor Documentation

4.7.2.1 gifts()

```
gifts::gifts (
    string name,
    int price,
    int value,
    int att_1,
    int att_2,
    int type )
```

Definition at line 3 of file gifts.cpp.

4.7.3 Member Function Documentation

4.7.3.1 get_alloc_status()

```
int gifts::get_alloc_status ( )
```

Definition at line 30 of file gifts.cpp.

4.7.3.2 get_att_1()

```
int gifts::get_att_1 ( )
```

Definition at line 21 of file gifts.cpp.

4.7.3.3 get_att_2()

```
int gifts::get_att_2 ( )
```

Definition at line 24 of file gifts.cpp.

4.7.3.4 get_name()

```
string gifts::get_name ( )
```

Definition at line 12 of file gifts.cpp.

4.7.3.5 get_price()

```
int gifts::get_price ( )
```

Definition at line 15 of file gifts.cpp.

4.7.3.6 get_type()

```
int gifts::get_type ( )
```

Definition at line 27 of file gifts.cpp.

4.7.3.7 get_value()

```
int gifts::get_value ( )
```

Definition at line 18 of file gifts.cpp.

4.7.3.8 set_alloc_status()

```
void gifts::set_alloc_status (
    int stat )
```

Definition at line 33 of file gifts.cpp.

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

- /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/[gifts.h](#)
- /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/[gifts.cpp](#)

4.8 miser Class Reference

```
#include <miser.h>
```

Public Member Functions

- [miser](#) (string name, int att, int inte, int bud, int req)
- string [get_name](#) ()
- int [get_attractiveness](#) ()
- int [get_intelligence](#) ()
- int [get_budget](#) ()
- int [get_status](#) ()
- int [get_att_req](#) ()
- void [set_status](#) (int stat)

4.8.1 Detailed Description

Definition at line 5 of file miser.h.

4.8.2 Constructor & Destructor Documentation

4.8.2.1 miser()

```
miser::miser (  
    string name,  
    int att,  
    int inte,  
    int bud,  
    int req )
```

Definition at line 3 of file miser.cpp.

4.8.3 Member Function Documentation

4.8.3.1 get_att_req()

```
int miser::get_att_req ( )
```

Definition at line 27 of file miser.cpp.

4.8.3.2 get_attractiveness()

```
int miser::get_attractiveness ( )
```

Definition at line 14 of file miser.cpp.

4.8.3.3 get_budget()

```
int miser::get_budget ( )
```

Definition at line 21 of file miser.cpp.

4.8.3.4 get_intelligence()

```
int miser::get_intelligence ( )
```

Definition at line 18 of file miser.cpp.

4.8.3.5 get_name()

```
string miser::get_name ( )
```

Definition at line 11 of file miser.cpp.

4.8.3.6 get_status()

```
int miser::get_status ( )
```

Definition at line 24 of file miser.cpp.

4.8.3.7 set_status()

```
void miser::set_status (
    int stat )
```

Definition at line 31 of file miser.cpp.

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

- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[miser.h](#)
- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[miser.cpp](#)

4.9 normal Class Reference

```
#include <normal.h>
```

Public Member Functions

- `normal` (string *name*, int *att*, int *inte*, int *bud*, int *pref*)
- string `get_name` ()
- int `get_attractiveness` ()
- int `get_intelligence` ()
- int `get_status` ()
- int `get_maintenance` ()
- int `get_preference` ()
- void `set_status` (int *stat*)

4.9.1 Detailed Description

Definition at line 5 of file `normal.h`.

4.9.2 Constructor & Destructor Documentation

4.9.2.1 `normal()`

```
normal::normal (
    string name,
    int att,
    int inte,
    int bud,
    int pref )
```

Definition at line 3 of file `normal.cpp`.

4.9.3 Member Function Documentation

4.9.3.1 `get_attractiveness()`

```
int normal::get_attractiveness ( )
```

Definition at line 14 of file `normal.cpp`.

4.9.3.2 `get_intelligence()`

```
int normal::get_intelligence ( )
```

Definition at line 18 of file `normal.cpp`.

4.9.3.3 get_maintenance()

```
int normal::get_maintenance ( )
```

Definition at line 21 of file normal.cpp.

4.9.3.4 get_name()

```
string normal::get_name ( )
```

Definition at line 11 of file normal.cpp.

4.9.3.5 get_preference()

```
int normal::get_preference ( )
```

Definition at line 27 of file normal.cpp.

4.9.3.6 get_status()

```
int normal::get_status ( )
```

Definition at line 24 of file normal.cpp.

4.9.3.7 set_status()

```
void normal::set_status (
    int stat )
```

Definition at line 30 of file normal.cpp.

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

- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[normal.h](#)
- /Users/prajjawa105/Downloads/ppl-assignment-aditya1605-master/[normal.cpp](#)

4.10 utility Class Reference

```
#include <utility.h>
```

Friends

- void `scan` (vector< `miser` > *b1, vector< `generous` > *b2, vector< `geek` > *b3, vector< `choosy` > *g1, vector< `normal` > *g2, vector< `desperate` > *g3)
- void `coupling` (vector< `miser` > &b1, vector< `generous` > &b2, vector< `geek` > &b3, vector< `choosy` > &g1, vector< `normal` > &g2, vector< `desperate` > &g3, vector< pair< string, string > > &couples, vector< pair< int, int > > &couples_type)
- int `maxxa` (int a, int b, int c)

4.10.1 Detailed Description

Definition at line 11 of file utility.h.

4.10.2 Friends And Related Function Documentation

4.10.2.1 coupling

```
void coupling (
    vector< miser > & b1,
    vector< generous > & b2,
    vector< geek > & b3,
    vector< choosy > & g1,
    vector< normal > & g2,
    vector< desperate > & g3,
    vector< pair< string, string > > & couples,
    vector< pair< int, int > > & couples_type ) [friend]
```

4.10.2.2 maxxa

```
int maxxa (
    int a,
    int b,
    int c ) [friend]
```

Definition at line 5 of file utility.cpp.

4.10.2.3 scan

```
void scan (
    vector< miser > * b1,
    vector< generous > * b2,
    vector< geek > * b3,
    vector< choosy > * g1,
    vector< normal > * g2,
    vector< desperate > * g3 ) [friend]
```

Definition at line 8 of file utility.cpp.

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

- /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/[utility.h](#)

Chapter 5

File Documentation

5.1 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/choosy.cpp File Reference

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

5.2 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/choosy.h File Reference

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

Classes

- class [choosy](#)

5.3 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/couple.cpp File Reference

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

5.4 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/couple.h File Reference

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

Classes

- class [couple](#)

5.5 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/desperate.cpp File Reference

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

5.6 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/desperate.h File Reference

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

Classes

- class [desperate](#)

5.7 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/geek.cpp File Reference

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

5.8 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/geek.h File Reference

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

Classes

- class [geek](#)

5.9 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/generous.cpp File Reference

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

5.10 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/generous.h File Reference

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

Classes

- class [generous](#)

5.11 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/gift_dist.cpp File Reference

```
#include "gift_dist.h"  
#include <bits/stdc++.h>  
#include "gifts.h"  
#include "couple.h"
```

Functions

- void [dist](#) (vector< [gifts](#) > &gif, vector< [couple](#) > &cp)

5.11.1 Function Documentation

5.11.1.1 [dist\(\)](#)

```
void dist (  
    vector< gifts > & gif,  
    vector< couple > & cp )
```

Definition at line 7 of file gift_dist.cpp.

5.12 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/gift_dist.h File Reference

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

Classes

- class [gift_dist](#)

Functions

- void [dist](#) (vector< [gifts](#) > &gif, vector< [couple](#) > &cp)

5.12.1 Function Documentation

5.12.1.1 dist()

```
void dist (
    vector< gifts > & gif,
    vector< couple > & cp )
```

Definition at line 7 of file gift_dist.cpp.

5.13 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/gifts.cpp File Reference

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

5.14 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/gifts.h File Reference

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

Classes

- class [gifts](#)

5.15 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/miser.cpp File Reference

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

5.16 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/miser.h File Reference

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

Classes

- class [miser](#)

5.17 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/normal.cpp File Reference

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

5.18 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/normal.h File Reference

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

Classes

- class [normal](#)

5.19 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/q1.cpp File Reference

```
#include <bits/stdc++.h>
#include "miser.h"
#include "generous.h"
#include "geek.h"
#include "choosy.h"
#include "normal.h"
#include "desperate.h"
#include "utility.h"
```

Functions

- int [main](#) ()

5.19.1 Function Documentation

5.19.1.1 [main](#)()

```
int main ( )
```

Definition at line 12 of file q1.cpp.

5.20 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/q2.cpp File Reference

```
#include <bits/stdc++.h>
#include "gift_dist.h"
#include "couple.h"
#include "gifts.h"
```

Functions

- bool [cmp1](#) ([couple](#) &c1, [couple](#) &c2)
- bool [cmp2](#) ([couple](#) &c1, [couple](#) &c2)
- int [main](#) ()

5.20.1 Function Documentation

5.20.1.1 [cmp1](#)()

```
bool cmp1 (
    couple & c1,
    couple & c2 )
```

Definition at line 7 of file q2.cpp.

5.20.1.2 cmp2()

```
bool cmp2 (
    couple & c1,
    couple & c2 )
```

Definition at line 10 of file q2.cpp.

5.20.1.3 main()

```
int main ( )
```

Definition at line 13 of file q2.cpp.

5.21 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/README.md File Reference

5.22 /Users/prajjawal05/Downloads/ppl-assignment-aditya1605-master/utility.cpp File Reference

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

Functions

- int [maxxa](#) (int a, int b, int c)
- void [scan](#) (vector< [miser](#) >(*b1), vector< [generous](#) >(*b2), vector< [geek](#) >(*b3), vector< [choosy](#) >(*g1), vector< [normal](#) >(*g2), vector< [desperate](#) >(*g3))
- void [coupling](#) (std::vector< [miser](#) > &mb, std::vector< [generous](#) > &genb, std::vector< [geek](#) > &gb, std::vector< [choosy](#) > &gc, std::vector< [normal](#) > &gn, std::vector< [desperate](#) > &gd, vector< pair< string, string > > &couples, vector< pair< int, int > > &couples_type)

5.22.1 Function Documentation

5.22.1.1 coupling()

```
void coupling (
    std::vector< miser > & mb,
    std::vector< generous > & genb,
    std::vector< geek > & gb,
    std::vector< choosy > & gc,
    std::vector< normal > & gn,
    std::vector< desperate > & gd,
    vector< pair< string, string > > & couples,
    vector< pair< int, int > > & couples_type )
```

Definition at line 105 of file utility.cpp.

5.22.1.2 maxx()

```
int maxx (
    int a,
    int b,
    int c )
```

Definition at line 5 of file utility.cpp.

5.22.1.3 scan()

```
void scan (
    vector< miser > * b1,
    vector< generous > * b2,
    vector< geek > * b3,
    vector< choosy > * g1,
    vector< normal > * g2,
    vector< desperate > * g3 )
```

Definition at line 8 of file utility.cpp.

5.23 /Users/prajjawal05/Downloads/pp1-assignment-aditya1605-master/utility.h File Reference

```
#include <bits/stdc++.h>
#include "miser.h"
#include "generous.h"
#include "geek.h"
#include "choosy.h"
#include "normal.h"
#include "desperate.h"
```


Classes

- class [utility](#)

Functions

- void [scan](#) (vector< [miser](#) > *b1, vector< [generous](#) > *b2, vector< [geek](#) > *b3, vector< [choosy](#) > *g1, vector< [normal](#) > *g2, vector< [desperate](#) > *g3)
- void [coupling](#) (vector< [miser](#) > &b1, vector< [generous](#) > &b2, vector< [geek](#) > &b3, vector< [choosy](#) > &g1, vector< [normal](#) > &g2, vector< [desperate](#) > &g3, vector< pair< string, string > > &couples, vector< pair< int, int > > &couples_type)
- int [maxxa](#) (int a, int b, int c)

5.23.1 Function Documentation

5.23.1.1 coupling()

```
void coupling (
    vector< miser > & b1,
    vector< generous > & b2,
    vector< geek > & b3,
    vector< choosy > & g1,
    vector< normal > & g2,
    vector< desperate > & g3,
    vector< pair< string, string > > & couples,
    vector< pair< int, int > > & couples_type )
```

5.23.1.2 maxxa()

```
int maxxa (
    int a,
    int b,
    int c )
```

Definition at line 5 of file utility.cpp.

5.23.1.3 scan()

```
void scan (
    vector< miser > * b1,
    vector< generous > * b2,
    vector< geek > * b3,
    vector< choosy > * g1,
    vector< normal > * g2,
    vector< desperate > * g3 )
```

Definition at line 8 of file utility.cpp.

