PPL Assignment

IIT2015087

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2.1 File List

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Chapter 3

Class Documentation

3.1 boys Class Reference

`#include <boys.h>`

Public Member Functions

- boys (string name, int att, int inte, int bud, int req, int type)
- string get_name ()
- int get_attractiveness ()
- int get_intelligence ()
- int get_budget ()
- int get_status ()
- int get_att_req ()
- int get_type ()
- void set_type (int type)
- void set_status (int stat)

3.1.1 Detailed Description

Definition at line 6 of file boys.h.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 boys()

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

Definition at line 4 of file boys.cpp.

3.1.3 Member Function Documentation

3.1.3.1 get_att_req()

```
int boys::get_att_req ( )
```

Definition at line 29 of file boys.cpp.

3.1.3.2 get_attractiveness()

```
int boys::get_attractiveness ( )
```

Definition at line 16 of file boys.cpp.

3.1.3.3 get_budget()

```
int boys::get_budget ( )
```

Definition at line 23 of file boys.cpp.

3.1.3.4 get_intelligence()

```
int boys::get_intelligence ( )
```

Definition at line 20 of file boys.cpp.

3.1.3.5 get_name()

```
string boys::get_name ( )
```

Definition at line 13 of file boys.cpp.

3.1.3.6 get_status()

```
int boys::get_status ( )
```

Definition at line 26 of file boys.cpp.

3.1.3.7 get_type()

```
int boys::get_type ( )
```

Definition at line 38 of file boys.cpp.

3.1.3.8 set_status()

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

Definition at line 32 of file boys.cpp.

3.1.3.9 set_type()

```
void boys::set_type (
            int type )
```

Definition at line 35 of file boys.cpp.

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

- abc/boys.h
- abc/boys.cpp

3.2 couple Class Reference

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

Public Member Functions

- couple (string bname, string gname, int typeg, int main, int attg, int intelg, int typeb, int bud, int attb, int intelb)
- string get_boy_name ()
- string get_girl_name ()
- int get_type_b ()
- int get_type_g ()
- int get_budget ()
- int get_maintenance ()
- int get_intel_b ()
- int get_intel_g ()
- int get_att_b ()
- int get_att_g ()
- void set_happiness (int x)
- void set_compatibility (int x)
- int get_compatibility ()
- int get_happiness ()
- int get_boy_happy ()
- int get_girl_happy ()
- void set_boy_happy (int x)
- void set_girl_happy (int x)

3.2.1 Detailed Description

Definition at line 4 of file couple.h.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 couple()

```
couple::couple (
            string bname,
            string gname,
            int typeg,
            int main,
            int attg,
            int intelg,
            int typeb,
            int bud,
            int attb,
            int intelb )
```

Definition at line 5 of file couple.cpp.

3.2.3 Member Function Documentation

3.2.3.1 get_att_b()

```
int couple::get_att_b ( )
```

Definition at line 58 of file couple.cpp.

3.2.3.2 get_att_g()

```
int couple::get_att_g ( )
```

Definition at line 54 of file couple.cpp.

3.2.3.3 get_boy_happy()

```
int couple::get_boy_happy ( )
```

Definition at line 46 of file couple.cpp.

3.2.3.4 get_boy_name()

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

Definition at line 22 of file couple.cpp.

3.2.3.5 get_budget()

```
int couple::get_budget ( )
```

Definition at line 38 of file couple.cpp.

3.2.3.6 get_compatibility()

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

Definition at line 90 of file couple.cpp.

3.2.3.7 get_girl_happy()

```
int couple::get_girl_happy ( )
```

Definition at line 50 of file couple.cpp.

3.2.3.8 get_girl_name()

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

Definition at line 26 of file couple.cpp.

3.2.3.9 get_happiness()

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

Definition at line 86 of file couple.cpp.

3.2.3.10 get_intel_b()

```
int couple::get_intel_b ( )
```

Definition at line 66 of file couple.cpp.

3.2.3.11 get_intel_g()

```
int couple::get_intel_g ( )
```

Definition at line 62 of file couple.cpp.

3.2.3.12 get_maintenance()

```
int couple::get_maintenance ( )
```

Definition at line 42 of file couple.cpp.

3.2.3.13 get_type_b()

```
int couple::get_type_b ( )
```

Definition at line 30 of file couple.cpp.

3.2.3.14 get_type_g()

```
int couple::get_type_g ( )
```

Definition at line 34 of file couple.cpp.

3.2.3.15 set_boy_happy()

```
void couple::set_boy_happy (
            int x )
```

Definition at line 70 of file couple.cpp.

3.2.3.16 set_compatibility()

```
void couple::set_compatibility (
            int x )
```

Definition at line 78 of file couple.cpp.

3.2.3.17 set_girl_happy()

```
void couple::set_girl_happy (
            int x )
```

Definition at line 74 of file couple.cpp.

3.2.3.18 set_happiness()

```
void couple::set_happiness (
            int x )
```

Definition at line 82 of file couple.cpp.

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

- abc/couple.h
- abc/couple.cpp

3.3 gift Class Reference

`#include <gift.h>`

Public Member Functions

- gift (int type, int price, int value)
- int get_price ()
- int get_value ()
- int get_type ()

3.3.1 Detailed Description

Definition at line 6 of file gift.h.

3.3.2 Constructor & Destructor Documentation

3.3.2.1 gift()

```
gift::gift (
            int type,
            int price,
            int value )
```

Definition at line 7 of file gift.cpp.

3.3.3 Member Function Documentation

3.3.3.1 get_price()

```
int gift::get_price ( )
```

Definition at line 16 of file gift.cpp.

3.3.3.2 get_type()

```
int gift::get_type ( )
```

Definition at line 12 of file gift.cpp.

3.3.3.3 get_value()

```
int gift::get_value ( )
```

Definition at line 20 of file gift.cpp.

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

- abc/gift.h
- abc/gift.cpp

3.4 girls Class Reference

```
#include <girls.h>
```

Public Member Functions

- girls (string name, int attractiveness, int intelligence, int maintenance, int preference, int type)
- string get_name ()
- int get_attractiveness ()
- int get_intelligence ()
- int get_maintenance ()
- int get_status ()
- int get_type ()
- int get_preference ()
- void set_type (int type)
- void set_status (int stat)

3.4.1 Detailed Description

Definition at line 6 of file girls.h.

3.4.2 Constructor & Destructor Documentation

3.4.2.1 girls()

```
girls::girls (
            string name,
            int attractiveness,
            int intelligence,
            int maintenance,
            int preference,
            int type )
```

Definition at line 4 of file girls.cpp.

3.4.3 Member Function Documentation

3.4.3.1 get_attractiveness()

```
int girls::get_attractiveness ( )
```

Definition at line 16 of file girls.cpp.

3.4.3.2 get_intelligence()

```
int girls::get_intelligence ( )
```

Definition at line 20 of file girls.cpp.

3.4.3.3 get_maintenance()

```
int girls::get_maintenance ( )
```

Definition at line 23 of file girls.cpp.

3.4.3.4 get_name()

```
string girls::get_name ( )
```

Definition at line 13 of file girls.cpp.

3.4.3.5 get_preference()

```
int girls::get_preference ( )
```

Definition at line 29 of file girls.cpp.

3.4.3.6 get_status()

```
int girls::get_status ( )
```

Definition at line 26 of file girls.cpp.

3.4.3.7 get_type()

```
int girls::get_type ( )
```

Definition at line 38 of file girls.cpp.

3.4.3.8 set_status()

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

Definition at line 32 of file girls.cpp.

3.4.3.9 set_type()

```
void girls::set_type (
            int type )
```

Definition at line 35 of file girls.cpp.

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

- abc/girls.h
- abc/girls.cpp

3.5 help Class Reference

```
#include <help.h>
```

Friends

- void scan (vector< boys > *b, vector< girls > *g)
- void coupling (vector< boys > *b, vector< girls > *g, vector< pair< string, string > > *couples)
- int maxxa (int a, int b, int c)

3.5.1 Detailed Description

Definition at line 7 of file help.h.

3.5.2 Friends And Related Function Documentation

3.5.2.1 coupling

```
void coupling (
            vector< boys > * b,
            vector< girls > * g,
            vector< pair< string, string > > * couples )  [friend]
```

Definition at line 41 of file help.cpp.

3.5.2.2 maxxa

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

3.5.2.3 scan

```
void scan (
            vector< boys > * b,
            vector< girls > * g )  [friend]
```

Definition at line 4 of file help.cpp.

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

- abc/help.h

Chapter 4

File Documentation

4.1 abc/boys.cpp File Reference

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

4.2 abc/boys.h File Reference

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

Classes

- class boys

4.3 abc/couple.cpp File Reference

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

4.4 abc/couple.h File Reference

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

Classes

- class couple

4.5 abc/generator.cpp File Reference

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

Functions

- int main ()

4.5.1 Function Documentation

4.5.1.1 main()

```
int main ( )
```

Definition at line 3 of file generator.cpp.

4.6 abc/gift.cpp File Reference

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

Functions

- bool happy_cmp (couple &c1, couple &c2)
- bool comp_cmp (couple &c1, couple &c2)
- int sum (int zzz)

4.6.1 Function Documentation

4.6.1.1 comp_cmp()

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

Definition at line 6 of file gift.cpp.

4.6.1.2 happy_cmp()

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

Definition at line 5 of file gift.cpp.

4.6.1.3 sum()

```
int sum (
            int zzz )
```

Definition at line 25 of file gift.cpp.

4.7 abc/gift.h File Reference

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

Classes

- class gift

Functions

- int sum (int jo)

4.7.1 Function Documentation

4.7.1.1 sum()

```
int sum (
            int jo )
```

Definition at line 25 of file gift.cpp.

4.8 abc/girls.cpp File Reference

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

4.9 abc/girls.h File Reference

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

Classes

- class girls

4.10 abc/help.cpp File Reference

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

Functions

- void scan (vector< boys >(*b), vector< girls >(*g))
- void coupling (vector< boys >(*b), vector< girls >(*g), vector< pair< string, string > >(*couples))

4.10.1 Function Documentation

4.10.1.1 coupling()

```
void coupling (
            vector< boys > * b,
            vector< girls > * g,
            vector< pair< string, string > > * couples )
```

Definition at line 41 of file help.cpp.

4.10.1.2 scan()

```
void scan (
            vector< boys > * b,
            vector< girls > * g )
```

Definition at line 4 of file help.cpp.

4.11 abc/help.h File Reference

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

Classes

- class help

Functions

- void scan (vector< boys > *b, vector< girls > *g)
- void coupling (vector< boys > *b, vector< girls > *g, vector< pair< string, string > > *couples)
- int maxxa (int a, int b, int c)

4.11.1 Function Documentation

4.11.1.1 coupling()

```
void coupling (
            vector< boys > * b,
            vector< girls > * g,
            vector< pair< string, string > > * couples )
```

Definition at line 41 of file help.cpp.

4.11.1.2 maxxa()

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

4.11.1.3 scan()

```
void scan (
            vector< boys > * b,
            vector< girls > * g )
```

Definition at line 4 of file help.cpp.

4.12 abc/Q1.cpp File Reference

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

Functions

- int main ()

4.12.1 Function Documentation

4.12.1.1 main()

```
int main ( )
```

Definition at line 7 of file Q1.cpp.

4.13 abc/Q2.cpp File Reference

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

Functions

- int main ()

4.13.1 Function Documentation

4.13.1.1 main()

```
int main ( )
```

Definition at line 4 of file Q2.cpp.