

PPL-1

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Chapter 1

Class Index

1.1 Class List

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

allocategifts	5
Couples	5
Gifts	7

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

/Volumes/Untitled/ayush/Ques2/ allocategifts.cpp	11
/Volumes/Untitled/ayush/Ques2/ allocategifts.h	12
/Volumes/Untitled/ayush/Ques2/ boygirldata_generator.cpp	12
/Volumes/Untitled/ayush/Ques2/ Couples.cpp	13
/Volumes/Untitled/ayush/Ques2/ Couples.h	13
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Chapter 3

Class Documentation

3.1 allocategifts Class Reference

```
#include <allocategifts.h>
```

Friends

- void [gifts_dist](#) (std::vector< [Gifts](#) > &mb, std::vector< [Couples](#) > &gb)

3.1.1 Detailed Description

Definition at line 7 of file allocategifts.h.

3.1.2 Friends And Related Function Documentation

3.1.2.1 gifts_dist

```
void gifts_dist (  
    std::vector< Gifts > & mb,  
    std::vector< Couples > & gb ) [friend]
```

Definition at line 17 of file allocategifts.cpp.

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

- /Volumes/Untitled/ayush/Ques2/[allocategifts.h](#)

3.2 Couples Class Reference

```
#include <Couples.h>
```

Public Member Functions

- [Couples](#) (std::string, std::string, int, int)
- std::string [getnameb](#) ()
- std::string [getnameg](#) ()
- double [gethappy](#) ()
- int [getcomp](#) ()

3.2.1 Detailed Description

Definition at line 5 of file Couples.h.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 Couples()

```
Couples::Couples (  
    std::string nameb,  
    std::string nameg,  
    int happy,  
    int comp )
```

Definition at line 3 of file Couples.cpp.

3.2.3 Member Function Documentation

3.2.3.1 getcomp()

```
int Couples::getcomp ( )
```

Definition at line 23 of file Couples.cpp.

3.2.3.2 gethappy()

```
double Couples::gethappy ( )
```

Definition at line 19 of file Couples.cpp.

3.2.3.3 getnameb()

```
std::string Couples::getnameb ( )
```

Definition at line 11 of file Couples.cpp.

3.2.3.4 getnameg()

```
std::string Couples::getnameg ( )
```

Definition at line 15 of file Couples.cpp.

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

- [/Volumes/Untitled/ayush/Ques2/Couples.h](#)
- [/Volumes/Untitled/ayush/Ques2/Couples.cpp](#)

3.3 Gifts Class Reference

```
#include <Gifts.h>
```

Public Member Functions

- [Gifts](#) (std::string, int, int, int, int, int)
- std::string [getname](#) ()
- int [getprice](#) ()
- int [getvalue](#) ()
- int [gettype](#) ()
- int [getdata1](#) ()
- int [getdata2](#) ()
- int [getalloc](#) ()
- int [setalloc](#) ()

3.3.1 Detailed Description

Definition at line 5 of file Gifts.h.

3.3.2 Constructor & Destructor Documentation

3.3.2.1 Gifts()

```
Gifts::Gifts (
    std::string name,
    int price,
    int value,
    int type,
    int data1,
    int data2 )
```

Definition at line 3 of file Gifts.cpp.

3.3.3 Member Function Documentation

3.3.3.1 getalloc()

```
int Gifts::getalloc ( )
```

Definition at line 44 of file Gifts.cpp.

3.3.3.2 getdata1()

```
int Gifts::getdata1 ( )
```

Definition at line 34 of file Gifts.cpp.

3.3.3.3 getdata2()

```
int Gifts::getdata2 ( )
```

Definition at line 39 of file Gifts.cpp.

3.3.3.4 getname()

```
std::string Gifts::getname ( )
```

Definition at line 14 of file Gifts.cpp.

3.3.3.5 `getprice()`

```
int Gifts::getprice ( )
```

Definition at line 19 of file Gifts.cpp.

3.3.3.6 `gettype()`

```
int Gifts::gettype ( )
```

Definition at line 29 of file Gifts.cpp.

3.3.3.7 `getvalue()`

```
int Gifts::getvalue ( )
```

Definition at line 24 of file Gifts.cpp.

3.3.3.8 `setalloc()`

```
int Gifts::setalloc ( )
```

Definition at line 49 of file Gifts.cpp.

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

- [/Volumes/Untitled/ayush/Ques2/Gifts.h](#)
- [/Volumes/Untitled/ayush/Ques2/Gifts.cpp](#)

Chapter 4

File Documentation

4.1 /Volumes/Untitled/ayush/Ques2/allocategifts.cpp File Reference

```
#include "allocategifts.h"
#include <fstream>
#include <iostream>
#include <cstdlib>
#include <algorithm>
#include <math.h>
#include "Gifts.h"
#include "Couples.h"
#include <vector>
```

Functions

- bool `cmp1` (`Gifts` &`g1`, `Gifts` &`g2`)
- void `gifts_dist` (std::vector< `Gifts` > &`g`, std::vector< `Couples` > &`c`)

4.1.1 Function Documentation

4.1.1.1 `cmp1()`

```
bool cmp1 (
    Gifts & g1,
    Gifts & g2 )
```

Definition at line 12 of file allocategifts.cpp.

4.1.1.2 gifts_dist()

```
void gifts_dist (
    std::vector< Gifts > & g,
    std::vector< Couples > & c )
```

Definition at line 17 of file allocategifts.cpp.

4.2 /Volumes/Untitled/ayush/Ques2/allocategifts.h File Reference

```
#include "Gifts.h"
#include "Couples.h"
#include <vector>
```

Classes

- class [allocategifts](#)

Functions

- void [gifts_dist](#) (std::vector< [Gifts](#) > &mb, std::vector< [Couples](#) > &gb)

4.2.1 Function Documentation

4.2.1.1 gifts_dist()

```
void gifts_dist (
    std::vector< Gifts > & mb,
    std::vector< Couples > & gb )
```

Definition at line 17 of file allocategifts.cpp.

4.3 /Volumes/Untitled/ayush/Ques2/boygirldata_generator.cpp File Reference

```
#include <iostream>
#include <fstream>
#include <stdlib.h>
#include <string>
#include <ctime>
```


Functions

- `std::string to_string` (int number)
- `int main` ()

4.3.1 Function Documentation

4.3.1.1 `main()`

```
int main ( )
```

Definition at line 40 of file `boygirldata_generator.cpp`.

4.3.1.2 `to_string()`

```
std::string to_string (
    int number )
```

Definition at line 11 of file `boygirldata_generator.cpp`.

4.4 /Volumes/Untitled/ayush/Ques2/Couples.cpp File Reference

```
#include "Couples.h"
```

4.5 /Volumes/Untitled/ayush/Ques2/Couples.h File Reference

```
#include <string>
```

Classes

- class `Couples`

4.6 /Volumes/Untitled/ayush/Ques2/gift_generator.cpp File Reference

```
#include <iostream>
#include <fstream>
#include <stdlib.h>
#include <string>
#include <ctime>
```

Functions

- `std::string to_string` (int number)
- `int main` ()

4.6.1 Function Documentation

4.6.1.1 `main()`

```
int main ( )
```

Definition at line 39 of file `gift_generator.cpp`.

4.6.1.2 `to_string()`

```
std::string to_string (
    int number )
```

Definition at line 10 of file `gift_generator.cpp`.

4.7 /Volumes/Untitled/ayush/Ques2/Gifts.cpp File Reference

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

4.8 /Volumes/Untitled/ayush/Ques2/Gifts.h File Reference

```
#include <string>
```

Classes

- class `Gifts`

4.9 /Volumes/Untitled/ayush/Ques2/q2.cpp File Reference

```
#include "Couples.h"
#include "Gifts.h"
#include "allocategifts.h"
#include <algorithm>
#include <iostream>
#include <vector>
#include <fstream>
```

Functions

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

4.9.1 Function Documentation

4.9.1.1 [cmp1\(\)](#)

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

Definition at line 9 of file q2.cpp.

4.9.1.2 [cmp2\(\)](#)

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

Definition at line 14 of file q2.cpp.

4.9.1.3 [main\(\)](#)

```
int main ( )
```

Definition at line 18 of file q2.cpp.

