# Assignment PPL

## API Documentation

### April 10, 2017

## Contents

C	tents	1
1	Module boy         .1 Variables          .2 Class Boy          1.2.1 Methods          1.2.2 Instance Variables	2
2	Module choosy 2.1 Variables 2.2 Class choosy 2.2.1 Methods 2.2.2 Instance Variables	3
3	Module couple         3.1 Variables          3.2 Class Couple          3.2.1 Methods          3.2.2 Instance Variables	4
4	Module desperate  .1 Variables2 Class desperate 4.2.1 Methods 4.2.2 Instance Variables	5
5	Module essential         .1 Variables            .2 Class Essential             .5.2.1 Methods	6
6	Module geek           5.1 Variables            5.2 Class Geek            6.2.1 Methods            6.2.2 Instance Variables	7 7
7	Module generous	8

CONTENTS

	7.1 7.2	Variab Class 7.2.1 7.2.2	oles Generous Methods Instance	· · · · · · · · · · · · · · · · · · ·						 		  		 · ·			 		8 8 8
8	<b>Mod</b> 8.1 8.2	dule gi Variab Class 8.2.1								 		 		 					9 9 9
9	9.1		fting bles Gifting . Methods							 		 		 					10 10 10 10
10	10.1	Class 10.2.1	rl bles Girl Methods Instance	· · · · · · · · · · · · · · · · · · ·						 		 		 					11 11 11 11 11
11	11.1		ons																
	12.1 12.2 <b>Mod</b>	Class 12.2.1	oles Luxury . Methods	 S						 		 		 					13 13 13 13 14 14
14	13.2 <b>Mod</b>	Variab dule m	oles							 		 		 					14 <b>15</b>
		Class 14.2.1	Miser Methods Instance	· · · · · · · · · · · · · · · · · · ·						 		  		 · ·		 	 		15 15
15	15.1	15.2.1		s						 		 		 			 		16 16 16 16
16	16.1	Functi	S_utility ons																17 17 17
17	Scri	pt scri	ipt-boys	_csv															18
18	Scri	${f pt}$ scri	ipt-class	esN	No_I	Van	ıe_	_do	t										19

CONTENTS

19 Script script-gift_csv	20
20 Script script-girls_csv	2
21 Script script-packages_No_Name_dot	2:
22 Module utility 22.1 Variables	2
22.2.1 Methods	2

Class Boy Module boy

## 1 Module boy

### 1.1 Variables

Name	Description
package	Value: None

### 1.2 Class Boy

 ${\bf Known~Subclasses:}$ geek. Ge<br/>ek, generous. Generous, miser. Miser

constructor for class Boy  $\,$ 

#### 1.2.1 Methods

init(self, name_id, attr, bgt, intlg, min_attr, t)
constraint(self, main_bgt, attr)
set_happiness(self, happiness)
$\mathbf{set\_gf}(\mathit{self},\mathit{gf})$
$mod\_bgt(self, bgt)$

Name	Description
happiness	set girlfirend of boy
gf	modify boy budget if he can't afford gift in gift basket

Class choosy Module choosy

### 2 Module choosy

#### 2.1 Variables

Name	Description
package	Value: None

#### 2.2 Class choosy

#### 2.2.1 Methods

### Inherited from girl. Girl (Section 10.2)

Name	Description					
Inherited from girl. Girl (Section 10.2)						
bf						

Class Couple Module couple

## 3 Module couple

### 3.1 Variables

Name	Description
package	Value: None

### 3.2 Class Couple

constructor for class Couple having object of boy and girl as attribute to make couple

#### 3.2.1 Methods

$\boxed{ \underline{\hspace{1cm}} init\underline{\hspace{1cm}} (self,\ b,\ g)}$	
$oxed{set\_happiness}(self)$	
$oxed{set\_compatibility}(self)$	

Name	Description
g	define and set level of happiness among couples
c_hap	define and set compatibility ampng couples

Class desperate Module desperate

### 4 Module desperate

#### 4.1 Variables

Name	Description
package	Value: None

### 4.2 Class desperate

#### 4.2.1 Methods

init(self, name_id, attr, main_bgt, intlg, t)	
Overrides: girl.Girlinit	

### Inherited from girl.Girl(Section 10.2)

constraint(), set\_bf(), set\_happiness()

Name	Description
Inherited from girl. Girl (Sec	tion 10.2)
bf	

Class Essential Module essential

### 5 Module essential

### 5.1 Variables

Name	Description
package	Value: None

### 5.2 Class Essential

#### 5.2.1 Methods

init(self, name_id, price, val, type_)
constructor
Overrides: gift.Giftinit

Class Geek Module geek

## 6 Module geek

#### 6.1 Variables

Name	Description
package	Value: None

#### 6.2 Class Geek

constructor

#### 6.2.1 Methods

init(self, name_id, atr, bgt, intlg, min_attr, t)
Overrides: boy.Boyinit

### Inherited from boy.Boy(Section 1.2)

Name	Description
Inherited from boy. Boy (Sect	tion 1.2)
gf, happiness	

Class Generous Module generous

### 7 Module generous

#### 7.1 Variables

Name	Description
package	Value: None

#### 7.2 Class Generous

constructor

#### 7.2.1 Methods

init(self, name_id, atr, bgt, intlg, min_attr, t)	
Overrides: boy.Boyinit	

### Inherited from boy.Boy(Section 1.2)

Name	Description
Inherited from boy. Boy (Sect	ion 1.2)
gf, happiness	

Class Gift Module gift

## 8 Module gift

### 8.1 Variables

Name	Description
package	Value: None

### 8.2 Class Gift

Known Subclasses: essential. Essential, luxury. Luxury, utility. Utility

Constructor for class gift

#### 8.2.1 Methods

)
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Class Gifting Module gifting

## 9 Module gifting

### 9.1 Variables

Name	Description
package	Value: None

### 9.2 Class Gifting

gifting brute force algo

choice 1 :-default choice 2:-user defined

#### 9.2.1 Methods

$\mathbf{gifting}(\mathit{self},\ \mathit{L},\ \mathit{GT},\ \mathit{choice})$
generous(self, GT, i, choice)
$\mathbf{miser}(\mathit{self}, \mathit{GT}, \mathit{i}, \mathit{choice})$
$\mathbf{geek}(self,\ GT,\ i,\ choice)$
$\mathbf{gifting\_choice}(\mathit{self},\;\mathit{GT},\;\mathit{i},\;\mathit{x},\;\mathit{y},\;\mathit{z},\;\mathit{choice},\;\mathit{btype})$

Class Girl Module girl

## 10 Module girl

### 10.1 Variables

Name	Description
package	Value: None

#### 10.2 Class Girl

**Known Subclasses:** choosy.choosy, desperate.desperate, normal.normal constructor for class girl

#### 10.2.1 Methods

init(self, name_id, attr, main_bgt, intlg, t)
constraint(self, bgt)
$\mathbf{set\_bf}(\mathit{self}, \mathit{bf})$
set_happiness(self, happiness)

Name	Description
bf	set happiness

Variables Module log

# 11 Module log

### 11.1 Functions

$\boxed{\mathbf{log\_maker}(write)}$	
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### 11.2 Variables

Name	Description
package	Value: None

Class Luxury Module luxury

## 12 Module luxury

### 12.1 Variables

Name	Description
package	Value: None

## 12.2 Class Luxury

#### 12.2.1 Methods

init(self, name_id, price, val, type_, rating, eco)
constructor
Overrides: gift.Giftinit

Variables Module main

## 13 Module main

### 13.1 Functions

$\mathbf{hap\_cpl}(L,k)$
${f calc\_hap}(L)$
details(L)
$\mathbf{display}(G)$
$\mathbf{make\_cpl}(C)$
$mk\_cpl()$

### 13.2 Variables

Name	Description
package	Value: None

Class Miser Module miser

### 14 Module miser

#### 14.1 Variables

Name	Description
package	Value: None

#### 14.2 Class Miser

boy.Boy — miser.Miser

#### 14.2.1 Methods

init(self, name_id, atr, bgt, intlg, min_attr, t)	
Overrides: boy.Boyinit	

### Inherited from boy.Boy(Section 1.2)

 $constraint(),\,mod\_bgt(),\,set\_gf(),\,set\_happiness()$ 

Name	Description
Inherited from boy.Boy (Section 1.2)	
gf, happiness	

Class normal Module normal

### 15 Module normal

#### 15.1 Variables

Name	Description
package	Value: None

#### 15.2 Class normal

#### 15.2.1 Methods

init(self, name_id, attr, main_bgt, intlg, t)
constructor
Overrides: girl.Girlinit

### $Inherited\ from\ girl. Girl (Section\ 10.2)$

Name	Description
Inherited from girl. Girl (Section 10.2)	
bf	

Variables Module q8\_utility

## 16 Module q8\_utility

### 16.1 Functions

utility()	
boy type	

 $\mathbf{make\_csv}(name,\ list\_)$ 

### 16.2 Variables

Name	Description
package	Value: None

# $17 \quad Script \; script-boys\_csv$

 $18 \quad Script \cdot script \cdot classes \underline{\hspace{0.1cm}} No \underline{\hspace{0.1cm}} Name \underline{\hspace{0.1cm}} dot$ 

 $19 \quad Script \ script-gift\_csv$ 

 $20 \quad Script \; script \text{-} girls \_csv$ 

 ${\bf 21}\quad {\bf Script\ script\mbox{-}packages\_No\_Name\_dot}$ 

Class Utility Module utility

## 22 Module utility

### 22.1 Variables

Name	Description
package	Value: None

### 22.2 Class Utility

### 22.2.1 Methods

init(self, name_id, price, val, type_, uval, uclass)
constructor
Overrides: gift.Giftinit

## $\mathbf{Index}$

boy (module), 2	girl. Girl.set_happiness $(method)$ , 11
boy.Boy (class), 2 boy.Boyinit (method), 2 boy.Boy.constraint (method), 2 boy.Boy.mod_bgt (method), 2	log (module), 12 log.log_maker (function), 12 luxury (module), 13
boy.Boy.mod_bgt (method), 2 boy.Boy.set_happiness (method), 2	luxury.Luxury (class), 13
choosy (module), 3 choosy.choosy (class), 3 couple (module), 4 couple.Couple (class), 4 couple.Coupleinit (method), 4 couple.Couple.setcompatibility (method) 4 couple.Couple.sethappiness (method),	main (module), 14 main.calc_hap (function), 14 main.details (function), 14 main.display (function), 14 main.hap_cpl (function), 14 main.make_cpl (function), 14 d), main.mk_cpl (function), 14 miser (module), 15 miser.Miser (class), 15
desperate (module), 5	normal (module), 16 normal.normal (class), 16
desperate.desperate (class), 5	q8_utility (module), 17 q8_utility.make_csv (function), 17
essential (module), 6 essential.Essential (class), 6	q8_utility.utility (function), 17
geek (module), 7 geek.Geek (class), 7 generous (module), 8 generous.Generous (class), 8 gift (module), 9	script-boys_csv (script), 18 script-classes_No_Name_dot (script), 19 script-gift_csv (script), 20 script-girls_csv (script), 21 script-packages_No_Name_dot (script), 22
gift.Gift (class), 9 gift.Giftinit (method), 9 gifting (module), 10	utility (module), 23 utility.Utility (class), 23
gifting.Gifting (class), 10 gifting.Gifting.geek (method), 10 gifting.Gifting.generous (method), 10 gifting.Gifting.gifting (method), 10 gifting.Gifting.gifting_choice (method), 10 gifting.Gifting.miser (method), 10 girl (module), 11 girl.Girl (class), 11 girl.Girlinit (method), 11 girl.Girl.constraint (method), 11 girl.Girl.set_bf (method), 11	