

Assignment PPL

API Documentation

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1 Module boy

1.1 Variables

Name	Description
<code>__package__</code>	Value: None

1.2 Class Boy

Known Subclasses: `geek.Geek`, `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)
```

```
set_gf(self, gf)
```

```
mod_bgt(self, bgt)
```

1.2.2 Instance Variables

Name	Description
<code>happiness</code>	set girlfriend of boy
<code>gf</code>	modify boy budget if he can't afford gift in gift basket

2 Module choosy

2.1 Variables

Name	Description
<code>__package__</code>	Value: None

2.2 Class choosy



2.2.1 Methods

<code>__init__(self, name_id, attr, main_bgt, intlg, t)</code>
Overrides: <code>girl.Girl.__init__</code>

Inherited from `girl.Girl` (Section 9.2)

`constraint()`, `set_bf()`, `set_happiness()`

2.2.2 Instance Variables

Name	Description
<i>Inherited from <code>girl.Girl</code> (Section 9.2)</i>	
<code>bf</code>	

3 Module couple

3.1 Variables

Name	Description
<code>__package__</code>	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

<code>__init__(self, b, g)</code>

<code>set_happiness(self)</code>

<code>set_compatibility(self)</code>

3.2.2 Instance Variables

Name	Description
<code>g</code>	define and set level of happiness among couples
<code>c_hap</code>	define and set compatibility among couples

4 Module desperate

4.1 Variables

Name	Description
<code>__package__</code>	Value: None

4.2 Class desperate

girl.Girl —
desperate.desperate

4.2.1 Methods

<code>__init__</code> (<i>self</i> , <i>name_id</i> , <i>attr</i> , <i>main_bgt</i> , <i>intlg</i> , <i>t</i>) Overrides: girl.Girl. <code>__init__</code>
--

Inherited from girl.Girl(Section 9.2)

`constraint()`, `set_bf()`, `set_happiness()`

4.2.2 Instance Variables

Name	Description
<i>Inherited from girl.Girl (Section 9.2)</i>	
<code>bf</code>	

5 Module essential

5.1 Variables

Name	Description
<code>__package__</code>	Value: None

5.2 Class Essential

gift.Gift —
essential.Essential

5.2.1 Methods

<code>__init__(self, name_id, price, val, type_)</code>
constructor
Overrides: gift.Gift.__init__

6 Module geek

6.1 Variables

Name	Description
<code>__package__</code>	Value: None

6.2 Class Geek

boy.Boy —
 geek.Geek
 constructor

6.2.1 Methods

<code>__init__(self, name_id, atr, bgt, intlg, min_attr, t)</code> Overrides: boy.Boy.__init__

Inherited from boy.Boy(Section 1.2)

`constraint()`, `mod_bgt()`, `set_gf()`, `set_happiness()`

6.2.2 Instance Variables

Name	Description
<i>Inherited from boy.Boy (Section 1.2)</i> <code>gf</code> , <code>happiness</code>	

7 Module generous

7.1 Variables

Name	Description
<code>__package__</code>	Value: None

7.2 Class Generous

boy.Boy —
 generous.Generous
 constructor

7.2.1 Methods

<code>__init__(self, name_id, atr, bgt, intlg, min_attr, t)</code> Overrides: boy.Boy.__init__

Inherited from boy.Boy (Section 1.2)

`constraint()`, `mod_bgt()`, `set_gf()`, `set_happiness()`

7.2.2 Instance Variables

Name	Description
<i>Inherited from boy.Boy (Section 1.2)</i> gf, happiness	

8 Module gift

8.1 Variables

Name	Description
<code>__package__</code>	Value: None

8.2 Class Gift

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

Constructor for class gift

8.2.1 Methods

<code>__init__(self, name_id, price, val, type_)</code>

9 Module girl

9.1 Variables

Name	Description
<code>__package__</code>	Value: None

9.2 Class Girl

Known Subclasses: choosy.choosy, desperate.desperate, normal.normal

constructor for class girl

9.2.1 Methods

<code>__init__(self, name_id, attr, main_bgt, intlg, t)</code>
--

<code>constraint(self, bgt)</code>

<code>set_bf(self, bf)</code>

<code>set_happiness(self, happiness)</code>

9.2.2 Instance Variables

Name	Description
bf	set happiness

10 Module log

10.1 Functions

<code>log__maker(<i>write</i>)</code>

10.2 Variables

Name	Description
<code>__package__</code>	Value: None

11 Module *luxury*

11.1 Variables

Name	Description
<code>__package__</code>	Value: None

11.2 Class *Luxury*

`gift.Gift` └─
 `luxury.Luxury`

11.2.1 Methods

<code>__init__</code> (<i>self</i> , <i>name_id</i> , <i>price</i> , <i>val</i> , <i>type__</i> , <i>rating</i> , <i>eco</i>)
constructor
Overrides: <code>gift.Gift.__init__</code>

12 Module main

12.1 Functions

hap_cpl(*L*, *B*, *G*)

```
A = sorted(L, key=lambda x: x.compat_status, reverse=True)
    print ('
Compatible couples:')
    for i in range(k):
        print (A[i].b.name_id + ' <-> ' + A[i].g.name_id)
        sort list H in descending order according to compatibility t
```

newcpl(*L*, *k*, *B*, *G*, *A*)

allocates new boys to the girls who broke up

calc_hap(*L*, *B*, *G*)

generous(*GT*, *i*)

miser(*GT*, *i*)

geek(*GT*, *i*)

details(*L*, *B*, *G*)

display(*G*)

mk_cpl()

make_cpl(*C*, *B*, *G*)

12.2 Variables

Name	Description
__package__	Value: None

13 Module miser

13.1 Variables

Name	Description
<code>__package__</code>	Value: None

13.2 Class Miser

```
boy.Boy └─
          miser.Miser
```

13.2.1 Methods

<code>__init__(self, name_id, atr, bgt, intlg, min_attr, t)</code> Overrides: boy.Boy. <code>__init__</code>

Inherited from boy.Boy(Section 1.2)

`constraint()`, `mod_bgt()`, `set_gf()`, `set_happiness()`

13.2.2 Instance Variables

Name	Description
<i>Inherited from boy.Boy (Section 1.2)</i> <code>gf</code> , <code>happiness</code>	

14 Module normal

14.1 Variables

Name	Description
<code>__package__</code>	Value: None

14.2 Class normal

girl.Girl —
 normal.normal

14.2.1 Methods

<code>__init__(self, name_id, attr, main_bgt, intlg, t)</code>
constructor
Overrides: girl.Girl.__init__

Inherited from girl.Girl(Section 9.2)

constraint(), set_bf(), set_happiness()

14.2.2 Instance Variables

Name	Description
<i>Inherited from girl.Girl (Section 9.2)</i>	
bf	

15 Module q4_utility

15.1 Functions

utility()
boy type

make_csv(<i>name</i>, <i>list_</i>)
--

15.2 Variables

Name	Description
__package__	Value: None

16 Script script-boys__csv

17 Script script-classes__No__Name__dot

18 Script script-gift__csv

19 Script script-girls__csv

20 Script script-packages_No_Name_dot

21 Module utility

21.1 Variables

Name	Description
<code>__package__</code>	Value: None

21.2 Class Utility

`gift.Gift` —
`utility.Utility`

21.2.1 Methods

<code>__init__(self, name_id, price, val, type_, uval, uclass)</code>
constructor
Overrides: <code>gift.Gift.__init__</code>

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