

Question7

API Documentation

April 10, 2017

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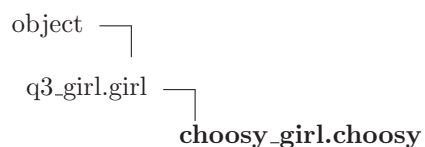
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1 Module choosy_girl

1.1 Variables

Name	Description
<code>--package--</code>	Value: None

1.2 Class choosy



1.2.1 Methods

```
--init__(self, name=None, attractiveness=None, intelligence=None, budget=None)
```

`x.--init__(...)` initializes x; see `help(type(x))` for signature

Overrides: `object.--init__` `exitit`(inherited documentation)

```
cal_happiness(self, gifts_array)
```

Overrides: `q3_girl.girl.cal_happiness`

Inherited from object

`--delattr__()`, `--format__()`, `--getattr__()`, `--hash__()`, `--new__()`, `--reduce__()`, `--reduce_ex__()`,
`--repr__()`, `--setattr__()`, `--sizeof__()`, `--str__()`, `--subclasshook__()`

1.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class__</code>	

1.2.3 Instance Variables

Name	Description
<code>typee</code>	this function will calculate happppiness for choosy girl object
<i>Inherited from q3_girl.girl (Section 14.2)</i>	

continued on next page

Name	Description
happiness	

2 Module chossy_girl

2.1 Variables

Name	Description
<code>--package--</code>	Value: None

2.2 Class Choosy



2.2.1 Methods

```
--init--(self, name=None, attractiveness=None, intelligence=None, budget=None)
```

`x.__init__(...)` initializes x; see `help(type(x))` for signature

Overrides: `object.__init__` `extit` (inherited documentation)

```
cal_happiness(self, gifts_array)
```

Overrides: `q3_girl.girl.cal_happiness`

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

2.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

2.2.3 Instance Variables

Name	Description
<i>Inherited from q3_girl.girl (Section 14.2)</i> happiness	

3 Module couple_maker

3.1 Variables

Name	Description
<code>--package--</code>	Value: None

3.2 Class couple

object └─
couple_maker.couple

3.2.1 Methods

```
--init__(self, boy_b, girl_g)
```

`x.__init__(...)` initializes `x`; see `help(type(x))` for signature

Overrides: `object.__init__` extit(inherited documentation)

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

3.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

4 Module *desperate_girl*

4.1 Variables

Name	Description
<code>--package--</code>	Value: <code>None</code>

4.2 Class *desperate*



4.2.1 Methods

```
--init--(self, name=None, attractiveness=None, intelligence=None,
budget=None)
```

`x.__init__(...)` initializes `x`; see `help(type(x))` for signature

Overrides: `object.__init__` `extit` (inherited documentation)

```
cal_happiness(self, gifts_array)
```

Overrides: `q3_girl.girl.cal_happiness`

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

4.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

4.2.3 Instance Variables

Name	Description
typee	this function will calculate happiness for desperate girl object
<i>Inherited from q3_girl.girl (Section 14.2)</i>	
happiness	

5 Module essential_gift

5.1 Variables

Name	Description
<code>--package--</code>	Value: None

5.2 Class essential



5.2.1 Methods

`--init--(self, cost=None, value=None, gift_name=None)`
`x.--init--(...)` initializes x; see `help(type(x))` for signature
 Overrides: `object.--init--` extit(inherited documentation)

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

5.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

5.2.3 Class Variables

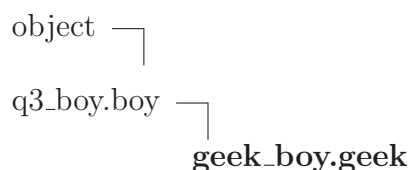
Name	Description
<i>Inherited from q3_gift.gift (Section 13.2)</i>	
<code>--abstractmethods--</code>	

6 Module *geek_boy*

6.1 Variables

Name	Description
<code>--package--</code>	Value: <code>None</code>

6.2 Class *geek*



6.2.1 Methods

`--init--`(*self*, *name=*`None`, *attractiveness=*`None`, *intelligence=*`None`, *budget=*`None`)

`x.--init--(...)` initializes `x`; see `help(type(x))` for signature

Overrides: `object.--init--` `exit`(inherited documentation)

`cal_happiness`(*self*, *gifts_array*, *happiness_girl*, *intelligence_girl*)

Overrides: `q3_boy.boy.cal_happiness`

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

6.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

6.2.3 Class Variables

Name	Description
<code>__abstractmethods__</code>	Value: <code>frozenset([])</code>

6.2.4 Instance Variables

Name	Description
<code>typee</code>	this function is used to calculate happiness of geek boy type object
<i>Inherited from <code>q3_boy.boy</code> (Section 12.2)</i>	
<code>happiness</code>	

7 Module *generous_boy*

7.1 Variables

Name	Description
<code>--package--</code>	Value: <code>None</code>

7.2 Class *generous*



7.2.1 Methods

`--init--`(*self*, *name=None*, *attractiveness=None*, *intelligence=None*, *budget=None*)

`x.--init--(...)` initializes `x`; see `help(type(x))` for signature

Overrides: `object.--init--` `extit`(inherited documentation)

`cal_happiness`(*self*, *gifts_array*, *happiness_girl*, *intelligence_girl*)

Overrides: `q3_boy.boy.cal_happiness`

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

7.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

7.2.3 Class Variables

Name	Description
<code>__abstractmethods__</code>	Value: <code>frozenset([])</code>

7.2.4 Instance Variables

Name	Description
<code>typee</code>	this function is used to calculate happiness for generous object type
<i>Inherited from <code>q3_boy.boy</code> (Section 12.2)</i>	
<code>happiness</code>	

8 Module *luxury_gift*

8.1 Variables

Name	Description
<code>--package--</code>	Value: <code>None</code>

8.2 Class *luxury*



8.2.1 Methods

`--init--`(*self*, *luxury_gift_rating*=`None`, *cost*=`None`, *value*=`None`, *gift_name*=`None`)

`x.--init--(...)` initializes `x`; see `help(type(x))` for signature

Overrides: `object.--init--` `exitit`(inherited documentation)

Inherited from object

`--delattr--()`, `--format--()`, `--getattrattribute--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

8.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

8.2.3 Class Variables

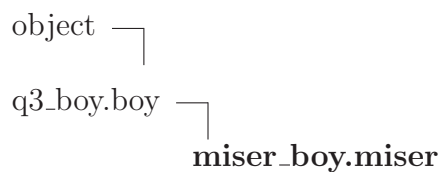
Name	Description
<i>Inherited from <code>q3_gift.gift</code> (Section 13.2)</i>	
<code>--abstractmethods--</code>	

9 Module miser_boy

9.1 Variables

Name	Description
<code>--package--</code>	Value: None

9.2 Class miser



9.2.1 Methods

```
--init__(self, name=None, attractiveness=None, intelligence=None,
budget=None)
```

`x.__init__(...)` initializes `x`; see `help(type(x))` for signature

Overrides: `object.__init__` `extit`(inherited documentation)

```
cal_happiness(gifts_array, happiness_girl, intelligence_girl)
```

Overrides: `q3_boy.boy.cal_happiness`

Inherited from object

```
--delattr--(), --format--(), --getattrattribute--(), --hash--(), --new--(), --reduce--(), --reduce_ex--(),
--repr--(), --setattr--(), --sizeof--(), --str--(), --subclasshook--()
```

9.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

9.2.3 Class Variables

Name	Description
<code>__abstractmethods__</code>	Value: <code>frozenset([])</code>

9.2.4 Instance Variables

Name	Description
<code>typee</code>	this function will calculate happiness for miser boy object
<i>Inherited from <code>q3_boy.boy</code> (Section 12.2)</i>	
<code>happiness</code>	

10 Module normal_girl

10.1 Variables

Name	Description
<code>--package--</code>	Value: None

10.2 Class normal



10.2.1 Methods

```
--init__(self, name=None, attractiveness=None, intelligence=None,
budget=None)
```

`x.__init__(...)` initializes x; see `help(type(x))` for signature

Overrides: `object.__init__` `extit`(inherited documentation)

```
cal_happiness(self, gifts_array)
```

Overrides: `q3_girl.girl.cal_happiness`

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

10.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

10.2.3 Instance Variables

Name	Description
<i>Inherited from q3_girl.girl (Section 14.2)</i> happiness	

11 Module q3

11.1 Functions

```
comapare_gifts(gift_object1, gift_object2)
```

```
compare_fitting(couple1, couple2)
```

```
compare_happiness(couple1, couple2)
```

11.2 Variables

Name	Description
girl_array	Value: []
boy_array	Value: []
couple_array	Value: []
gift_array	Value: []
row_count_boys	Value: 12
boyReader	Value: csv.reader(boysfile, delimiter=',')
boyslist	Value: [['ram ', ' 5 ', ' 9 ', ' geek ', ' 100'], ['shyam ', ' 7...
row_count_girls	Value: 6
girlReader	Value: csv.reader(girlsfile, delimiter=',')
girlslist	Value: [['radha ', ' 5 ', ' 6 ', ' choosy ', ' 80'], ['tina ', '...
row_count_gifts	Value: 20
giftReader	Value: csv.reader(giftsfile)
giftslist	Value: [['Luxury ', ' 8 ', ' 9'], ['Utility', ' 5', ' 5'], ['Essen...
k	Value: 4
file	Value: open('ans_file_Happiness.txt', 'w')
ansfilewriter	Value: csv.writer(ansfile)
__package__	Value: None
ansfile	Value: <closed file 'ans_file_Happiness.txt', mode 'a' at 0x7fc7...
boysfile	Value: <closed file 'boys.csv', mode 'r' at 0x7fc7a58981e0>

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Name	Description
giftsfile	Value: <closed file 'gifts.txt', mode 'r' at 0x7fc7a5898150>
girlsfile	Value: <closed file 'girls.txt', mode 'r' at 0x7fc7a5898390>
hap_boy	Value: 69
hap_girl	Value: 69
i	Value: 3
j	Value: 19
main_cost	Value: 178
row	Value: ['Luxury ', ' 6 ', ' 7']
x	Value: 118
y	Value: 129

12 Module q3_boy

12.1 Variables

Name	Description
<code>--package--</code>	Value: None

12.2 Class boy

object └─
 q3_boy.boy

Known Subclasses: geek_boy.geek, generous_boy.generous, miser_boy.miser

12.2.1 Methods

```
--init__(self, name=None, attractiveness=None, intelligence=None,
budget=None)
```

`x.__init__(...)` initializes x; see `help(type(x))` for signature

Overrides: `object.__init__` extit(inherited documentation)

```
cal_happiness(self, gifts_Array, happiness_of_girl, intelligence_girl)
```

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

12.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

12.2.3 Class Variables

Name	Description
<code>--abstractmethods--</code>	Value: frozenset(['cal_happiness'])

12.2.4 Instance Variables

Name	Description
happiness	this abstract method s used to calculate happiness , which will be made concrete in the calling class

13 Module q3_gift

13.1 Variables

Name	Description
<code>--package--</code>	Value: None

13.2 Class gift

object └─
 q3_gift.gift

Known Subclasses: `essential_gift.essential`, `luxury_gift.luxury`, `utility_gift.utility`

13.2.1 Methods

```
--init--(self, cost=None, value=None, gift_name=None)
```

`x.__init__(...)` initializes x; see `help(type(x))` for signature

Overrides: `object.__init__` `extit`(inherited documentation)

Inherited from object

`--delattr--()`, `--format--()`, `--getattrattribute--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

13.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

13.2.3 Class Variables

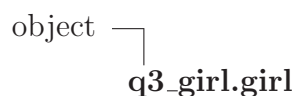
Name	Description
<code>--abstractmethods--</code>	Value: <code>frozenset([])</code>

14 Module *q3_girl*

14.1 Variables

Name	Description
<code>--package--</code>	Value: <code>None</code>

14.2 Class *girl*



Known Subclasses: *choosy_girl.choosy*, *chossy_girl.Choosy*, *desperate_girl.desperate*, *normal_girl.normal*

14.2.1 Methods

```
--init--(self, name=None, attractiveness=None, intelligence=None,
budget=None)
```

`x.--init--(...)` initializes `x`; see `help(type(x))` for signature

Overrides: `object.--init--` `extit`(inherited documentation)

```
cal_happiness(self, gifts_Array)
```

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`,
`--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

14.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

14.2.3 Instance Variables

Name	Description
happiness	this abstract function is used to calculate happiness , will be made concrete in the calling class

15 Module q4

15.1 Functions

```
comapare_gifts(gift_object1, gift_object2)
```

```
compare_fitting(couple1, couple2)
```

```
compare_happiness(couple1, couple2)
```

15.2 Variables

Name	Description
girl_array	Value: []
boy_array	Value: []
couple_array	Value: []
gift_array	Value: []
row_count_boys	Value: 12
boyReader	Value: csv.reader(boysfile, delimiter=',')
boyslist	Value: [['ram ', ' 5 ', ' 9 ', ' geek ', ' 100'], ['shyam ', ' 7...
row_count_girls	Value: 6
girlReader	Value: csv.reader(girlsfile, delimiter=',')
girlslist	Value: [['radha ', ' 5 ', ' 6 ', ' choosy ', ' 80'], ['tina ', '...
row_count_gifts	Value: 20
giftReader	Value: csv.reader(giftsfile)
giftslist	Value: [['Luxury ', '8 ', '9'], ['Utility', ' 5', ' 5'], ['Essen...
k	Value: 1
d	Value: {'krishna ': 'Laila '}
file	Value: open('ans_file_Happiness_after_breakup.txt', 'w')
ansfilewriter	Value: csv.writer(ansfile)
__package__	Value: None
ansfile	Value: <closed file 'ans_file_Happiness_breakup.txt', mode 'a' a...

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Name	Description
boysfile	Value: <closed file 'boys.csv', mode 'r' at 0x7fc7a5898540>
giftsfile	Value: <closed file 'gifts.txt', mode 'r' at 0x7fc7a58986f0>
girlsfile	Value: <closed file 'girls.txt', mode 'r' at 0x7fc7a58985d0>
hap_boy	Value: 69
hap_girl	Value: 69
i	Value: 0
j	Value: 5
main_cost	Value: 178
row	Value: ['Luxury ', ' 6 ', ' 7']
x	Value: 118
y	Value: 129

16 Module q5

16.1 Functions

cmp_attractiveness(*b1*, *b2*)

cmp_maintenance(*g1*, *g2*)

comapare_gifts(*gift_object1*, *gift_object2*)

compare_fitting(*couple1*, *couple2*)

compare_happiness(*couple1*, *couple2*)

16.2 Variables

Name	Description
girl_array	Value: []
boy_array	Value: []
couple_array	Value: []
gift_array	Value: []
row_count_boys	Value: 12
boyReader	Value: csv.reader(boysfile, delimiter=',')
boyslist	Value: [['ram ', ' 5 ', ' 9 ', ' geek ', ' 100'], ['shyam ', ' 7...
row_count_girls	Value: 6
girlReader	Value: csv.reader(girlsfile, delimiter=',')
girlslist	Value: [['radha ', ' 5 ', ' 6 ', ' choosy ', ' 80'], ['tina ', '...
row_count_gifts	Value: 20
giftReader	Value: csv.reader(giftsfile)
giftslist	Value: [['Luxury ', '8 ', '9'], ['Utility', ' 5', ' 5'], ['Essen...
cnt	Value: 6
k	Value: 4
file	Value: open('ans_file_Happiness.txt', 'w')
ansfilewriter	Value: csv.writer(ansfile)
__package__	Value: None

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Name	Description
ansfile	Value: <closed file 'ans_file_Happiness.txt', mode 'a' at 0x7fc7...
boysfile	Value: <closed file 'boys.csv', mode 'r' at 0x7fc7a5898810>
flag	Value: 0
giftsfile	Value: <closed file 'gifts.txt', mode 'r' at 0x7fc7a5898930>
girlsfile	Value: <closed file 'girls.txt', mode 'r' at 0x7fc7a58989c0>
hap_boy	Value: 69
hap_girl	Value: 69
i	Value: 3
j	Value: 19
main_cost	Value: 178
row	Value: ['Luxury ', ' 6 ', ' 7']
x	Value: 118
y	Value: 129

17 Module q6

17.1 Functions

```
compare_fitting(couple1, couple2)
```

```
compare_happiness(couple1, couple2)
```

```
comapare_gifts(gift_object1, gift_object2)
```

17.2 Variables

Name	Description
girl_array	Value: []
boy_array	Value: []
couple_array	Value: []
gift_array	Value: []
row_count_boys	Value: 12
boyReader	Value: csv.reader(boysfile, delimiter=',')
boyslist	Value: [['ram ', ' 5 ', ' 9 ', ' geek ', ' 100'], ['shyam ', ' 7...
row_count_girls	Value: 6
girlReader	Value: csv.reader(girlsfile, delimiter=',')
girlslist	Value: [['radha ', ' 5 ', ' 6 ', ' choosy ', ' 80'], ['tina ', '...
row_count_gifts	Value: 20
giftReader	Value: csv.reader(giftsfile)
giftslist	Value: [['Luxury ', ' 8 ', ' 9'], ['Utility', ' 5', ' 5'], ['Essen...
d	Value: {'krishna ': 'Laila ', 'ram ': 'tina '}
t	Value: 300
i	Value: 2
k	Value: 3
file	Value: open('ans_file_Happiness_after_breakup.txt', 'w')
ansfilewriter	Value: csv.writer(ansfile)
--package--	Value: None

continued on next page

Name	Description
ansfile	Value: <closed file 'ans_file_Happiness_breakup.txt', mode 'a' a...>
boysfile	Value: <closed file 'boys.csv', mode 'r' at 0x7fc7a5898b70>
giftsfile	Value: <closed file 'gifts.txt', mode 'r' at 0x7fc7a5898d20>
girlsfile	Value: <closed file 'girls.txt', mode 'r' at 0x7fc7a5898c90>
hap_boy	Value: 69
hap_girl	Value: 69
j	Value: 5
k1	Value: 3
main_cost	Value: 178
row	Value: ['Luxury ', ' 6 ', ' 7']
x	Value: 118
y	Value: 129
z	Value: 299

18 Script script-ans_file_Compatibility.txt

19 Script script-ans_file_Happiness_after_breakup.txt

20 Script script-ans_file_Happiness_breakup.txt

21 Script script-ans_file_Happiness.txt

22 Script script-ans_file_couples_q7.txt

23 Script script-ans_file_couples.txt

24 Script script-boys_csv

25 Script script-gifting_log_q9.txt

26 Script script-gifts.txt

27 Script script-girls.txt

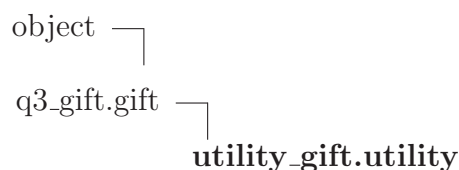
28 Script script-log.txt

29 Module utility_gift

29.1 Variables

Name	Description
<code>--package--</code>	Value: None

29.2 Class utility



29.2.1 Methods

`--init--`(*self*, *utility_value*=None, *utility_class*=None, *cost*=None, *value*=None, *gift_name*=None)

`x.--init--(...)` initializes x; see `help(type(x))` for signature

Overrides: `object.--init--` `exit`(inherited documentation)

Inherited from object

`--delattr--()`, `--format--()`, `--getattr--()`, `--hash--()`, `--new--()`, `--reduce--()`, `--reduce_ex--()`, `--repr--()`, `--setattr--()`, `--sizeof--()`, `--str--()`, `--subclasshook--()`

29.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>--class--</code>	

29.2.3 Class Variables

Name	Description
<i>Inherited from q3_gift.gift (Section 13.2)</i>	
<code>--abstractmethods--</code>	

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