PPL Assignment - Question6

API Documentation

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1 Module ppl-assignment-CosmicCoder96.q6.boy'

1.1 Variables

Name	Description
__package__	**Value:** `None`

1.2 Class Boy

Known Subclasses: ppl-assignment-CosmicCoder96.q6.boy.Geek, ppl-assignment-CosmicCoder96.q6.boy.Generous, ppl-assignment-CosmicCoder96.q6.boy.Miser

1.2.1 Methods

__init__(*self*, *name*, *attractiveness*, *budget*, *intelligence_level*, *min_attraction_requirement*, *committed*, *happiness*)

commit(*self*)

isCommitted(*self*)

1.3 Class Geek

ppl-assignment-CosmicCoder96.q6.boy.Boy
└ **ppl-assignment-CosmicCoder96.q6.boy.Geek**

1.3.1 Methods

__init__(*self*, *name*, *attractiveness*, *budget*, *intelligence_level*, *min_attraction_requirement*, *committed*, *happiness*)

Overrides: ppl-assignment-CosmicCoder96.q6.boy.Boy.__init__

getHappiness(*self*, *girl*, *total_gifts*)

Inherited from ppl-assignment-CosmicCoder96.q6.boy.Boy(Section 2.2)

commit(), isCommitted()

1.4 Class Generous

ppl-assignment-CosmicCoder96.q6.boy.Boy

ppl-assignment-CosmicCoder96.q6.boy.Generous

1.4.1 Methods

__init__(*self*, *name*, *attractiveness*, *budget*, *intelligence_level*, *min_attraction_requirement*, *committed*, *happiness*)

Overrides: ppl-assignment-CosmicCoder96.q6.boy.Boy.__init__

getHappiness(*self*, *girl*, *total_gifts*)

Inherited from ppl-assignment-CosmicCoder96.q6.boy.Boy(Section 2.2)

commit(), isCommitted()

1.5 Class Miser

ppl-assignment-CosmicCoder96.q6.boy.Boy

ppl-assignment-CosmicCoder96.q6.boy.Miser

1.5.1 Methods

__init__(*self*, *name*, *attractiveness*, *budget*, *intelligence_level*, *min_attraction_requirement*, *committed*, *happiness*)

Overrides: ppl-assignment-CosmicCoder96.q6.boy.Boy.__init__

getHappiness(*self*, *girl*, *total_gifts*)

Inherited from ppl-assignment-CosmicCoder96.q6.boy.Boy(Section 2.2)

commit(), isCommitted()

2 Module ppl-assignment-CosmicCoder96.q6.couple'

2.1 Variables

Name	Description
__package__	**Value:** `'ppl-assignment-CosmicCoder96.q6'`

2.2 Class Boy

Known Subclasses: ppl-assignment-CosmicCoder96.q6.boy.Geek, ppl-assignment-CosmicCoder96.q6.boy
ppl-assignment-CosmicCoder96.q6.boy.Miser

2.2.1 Methods

__init__(*self*, *name*, *attractiveness*, *budget*, *intelligence_level*, *min_attraction_requirement*, *committed*, *happiness*)

commit(*self*)

isCommitted(*self*)

2.3 Class Couple

2.3.1 Methods

__init__(*self*, *boy*, *girl*, *happiness*, *compatibility*)

2.4 Class Girl

Known Subclasses: ppl-assignment-CosmicCoder96.q6.girl.Choosy, ppl-assignment-CosmicCoder96.q6.g
ppl-assignment-CosmicCoder96.q6.girl.Normal

2.4.1 Methods

__init__(*self*, *name*, *attractiveness*, *maintainance_budget*, *intelligence_level*, *criterion*, *committed*, *happiness*)

isCommitted(*self*)

commit(*self*)

3 Module ppl-assignment-CosmicCoder96.q6.gift'

3.1 Variables

Name	Description
__package__	**Value:** `None`

3.2 Class Gift

Known Subclasses: ppl-assignment-CosmicCoder96.q6.gift.essentialGift, ppl-assignment-CosmicCoder96.q6.gift.luxuryGift, ppl-assignment-CosmicCoder96.q6.gift.utilityGift

3.2.1 Methods

__**init**__(*self*, *price*, *value*, *used*=`False`)

3.3 Class essentialGift

ppl-assignment-CosmicCoder96.q6.gift.Gift
└ **ppl-assignment-CosmicCoder96.q6.gift.essentialGift**

3.3.1 Methods

__**init**__(*self*, *price*, *value*, *used*, *Type*)

Overrides: ppl-assignment-CosmicCoder96.q6.gift.Gift.__init__

3.4 Class luxuryGift

ppl-assignment-CosmicCoder96.q6.gift.Gift
└ **ppl-assignment-CosmicCoder96.q6.gift.luxuryGift**

3.4.1 Methods

__init__(*self*, *price*, *value*, *used*, *difficulty*, *rating*, *Type*)
Overrides: ppl-assignment-CosmicCoder96.q6.gift.Gift.__init__

3.5 Class utilityGift

ppl-assignment-CosmicCoder96.q6.gift.Gift
└ **ppl-assignment-CosmicCoder96.q6.gift.utilityGift**

3.5.1 Methods

__init__(*self*, *price*, *value*, *used*, *utility_value*, *utility_class*, *Type*)
Overrides: ppl-assignment-CosmicCoder96.q6.gift.Gift.__init__

4 Module ppl-assignment-CosmicCoder96.q6.girl

4.1 Variables

Name	Description
__package__	**Value:** `'ppl-assignment-CosmicCoder96.q6'`

4.2 Class Girl

Known Subclasses: ppl-assignment-CosmicCoder96.q6.girl.Choosy, ppl-assignment-CosmicCoder96.q6.g
ppl-assignment-CosmicCoder96.q6.girl.Normal

4.2.1 Methods

__init__(*self*, *name*, *attractiveness*, *maintainance_budget*, *intelligence_level*, *criterion*, *committed*, *happiness*)

isCommitted(*self*)

commit(*self*)

4.3 Class Choosy

ppl-assignment-CosmicCoder96.q6.girl.Girl
└ **ppl-assignment-CosmicCoder96.q6.girl.Choosy**

4.3.1 Methods

__init__(*self*, *name*, *attractiveness*, *maintainance_budget*, *intelligence_level*, *criterion*, *committed*, *happiness*)

Overrides: ppl-assignment-CosmicCoder96.q6.girl.Girl.__init__

getHappiness(*self*, *boy*, *total_gifts*, *total_gift_value*)

Inherited from ppl-assignment-CosmicCoder96.q6.girl.Girl(Section 4.2)

commit(), isCommitted()

4.4 Class Normal

ppl-assignment-CosmicCoder96.q6.girl.Girl

ppl-assignment-CosmicCoder96.q6.girl.Normal

4.4.1 Methods

__init__(*self*, *name*, *attractiveness*, *maintainance_budget*, *intelligence_level*, *criterion*, *committed*, *happiness*)

Overrides: ppl-assignment-CosmicCoder96.q6.girl.Girl.__init__

getHappiness(*self*, *boy*, *total_gifts*, *total_gift_value*)

Inherited from ppl-assignment-CosmicCoder96.q6.girl.Girl(Section 4.2)

commit(), isCommitted()

4.5 Class Desperate

ppl-assignment-CosmicCoder96.q6.girl.Girl

ppl-assignment-CosmicCoder96.q6.girl.Desperate

4.5.1 Methods

__init__(*self*, *name*, *attractiveness*, *maintainance_budget*, *intelligence_level*, *criterion*, *committed*, *happiness*)

Overrides: ppl-assignment-CosmicCoder96.q6.girl.Girl.__init__

getHappiness(*self*, *boy*, *total_gifts*, *total_gift_value*)

Inherited from ppl-assignment-CosmicCoder96.q6.girl.Girl(Section 4.2)

commit(), isCommitted()

5 Module ppl-assignment-CosmicCoder96.q6.q4'

5.1 Functions

generateBoyList()

generateGirlList()

giveGifts(*boy_list*, *girl_list*)

valentine(*k*, *couple_list*, *boy_list*, *girl_list*)

5.2 Variables

Name	Description
__package__	**Value:** 'ppl-assignment-CosmicCoder96.q6'
boy_list	**Value:** [<ppl-assignment-CosmicCoder96.q6.boy.Generous instance a...
couple_list	**Value:** [<ppl-assignment-CosmicCoder96.q6.couple.Couple instance ...
girl_list	**Value:** [<ppl-assignment-CosmicCoder96.q6.girl.Normal instance at...

6 Module ppl-assignment-CosmicCoder96.q6.q6'

6.1 Functions

calendar(*t*, *k*, *couple_list*, *boy_list*, *girl_list*)

generateBoyList()

generateGirlList()

giveGifts(*boy_list*, *girl_list*)

q6()

valentine(*k*, *couple_list*, *boy_list*, *girl_list*)

6.2 Variables

Name	Description
__package__	**Value:** `'ppl-assignment-CosmicCoder96.q6'`

7 Module ppl-assignment-CosmicCoder96.q6.utility

7.1 Functions

randomName(*size*=6, *chars*='ABCDEFGHIJKLMNOPQRSTUVWXYZ')

generateBoyList()

generateGirlList()

generateGiftList()

makeCouples(*mode*, *boy_list*, *girl_list*)

giveGifts(*boy_list*, *girl_list*)

k_most_happy_couples(*couple_list*)

k_least_happy_couples(*couple_list*)

valentine(*k*, *couple_list*, *boy_list*, *girl_list*)

calendar(*t*, *k*, *couple_list*, *boy_list*, *girl_list*)

7.2 Variables

Name	Description
__package__	**Value:** 'ppl-assignment-CosmicCoder96.q6'

8 Package ppl-assignment-CosmicCoder96.q6'

8.1 Modules

- **boy'** *(Section 1, p. 2)*
- **couple'** *(Section 2, p. 4)*
- **gift'** *(Section 3, p. 6)*
- **girl** *(Section 4, p. 8)*
- **q4'** *(Section 5, p. 10)*
- **q6'** *(Section 6, p. 11)*
- **utility** *(Section 7, p. 12)*

8.2 Variables

Name	Description
__package__	**Value:** `None`

9 Script script-boys_list_txt

10 Script script-couple_list_txt

11 Script script-gift_list_txt

12 Script script-girls_list_txt

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