PPL Assignment - Question8

API Documentation

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1 Module ppl-assignment-CosmicCoder96.q8.boy'

1.1 Variables

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

1.2 Class Boy

1.2.1 Methods

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

commit(*self*)

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

isCommitted(*self*)

2 Module ppl-assignment-CosmicCoder96.q8.couple'

2.1 Variables

Name	Description
__package__	**Value:** `'ppl-assignment-CosmicCoder96.q8'`

2.2 Class Boy

2.2.1 Methods

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

commit(*self*)

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

isCommitted(*self*)

2.3 Class Couple

2.3.1 Methods

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

2.4 Class Girl

2.4.1 Methods

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

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

isCommitted(*self*)

commit(*self*)

3 Module ppl-assignment-CosmicCoder96.q8.gift'

3.1 Variables

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

3.2 Class Gift

Known Subclasses: ppl-assignment-CosmicCoder96.q8.gift.essentialGift, ppl-assignment-CosmicCoder96.q8.gift.luxuryGift
ppl-assignment-CosmicCoder96.q8.gift.utilityGift

3.2.1 Methods

__init__(*self*, *price*, *value*, *used*=`False`)

3.3 Class essentialGift

ppl-assignment-CosmicCoder96.q8.gift.Gift

ppl-assignment-CosmicCoder96.q8.gift.essentialGift

3.3.1 Methods

__init__(*self*, *price*, *value*, *used*, *Type*)

Overrides: ppl-assignment-CosmicCoder96.q8.gift.Gift.__init__

3.4 Class luxuryGift

ppl-assignment-CosmicCoder96.q8.gift.Gift

ppl-assignment-CosmicCoder96.q8.gift.luxuryGift

3.4.1 Methods

__init__(*self*, *price*, *value*, *used*, *difficulty*, *rating*, *Type*)

Overrides: ppl-assignment-CosmicCoder96.q8.gift.Gift.__init__

3.5 Class utilityGift

ppl-assignment-CosmicCoder96.q8.gift.Gift
└ **ppl-assignment-CosmicCoder96.q8.gift.utilityGift**

3.5.1 Methods

__init__(*self*, *price*, *value*, *used*, *utility_value*, *utility_class*, *Type*)
Overrides: ppl-assignment-CosmicCoder96.q8.gift.Gift.__init__

4 Module ppl-assignment-CosmicCoder96.q8.girl

4.1 Variables

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

4.2 Class Girl

4.2.1 Methods

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

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

isCommitted(*self*)

commit(*self*)

5 Module ppl-assignment-CosmicCoder96.q8.q8'

5.1 Functions

generateBoyList()

generateGirlList()

giveGifts(*boy_list*, *girl_list*, *choice*)

q8()

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

5.2 Variables

Name	Description
__package__	**Value:** `'ppl-assignment-CosmicCoder96.q8'`

6 Module ppl-assignment-CosmicCoder96.q8.utility

6.1 Functions

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

generateBoyList()

generateGirlList()

generateGiftList()

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

giveGifts(*boy_list*, *girl_list*, *choice*)

k_most_happy_couples(*couple_list*)

k_least_happy_couples(*couple_list*)

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

6.2 Variables

Name	Description
__package__	**Value:** 'ppl-assignment-CosmicCoder96.q8'

7 Package ppl-assignment-CosmicCoder96.q8'

7.1 Modules

- **boy'** *(Section 1, p. 2)*
- **couple'** *(Section 2, p. 3)*
- **gift'** *(Section 3, p. 4)*
- **girl** *(Section 4, p. 6)*
- **q8'** *(Section 5, p. 7)*
- **utility** *(Section 6, p. 8)*

7.2 Variables

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

8 Script script-boys_list_txt

9 Script script-couple_list_txt

10 Script script-gift_list_txt

11 Script script-girls_list_txt

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