PPL Assignment Question 2

API Documentation

February 25, 2017

Contents

1 Module q2_boys

1.1 Variables

Name	Description
___package___	**Value:** `None`

1.2 Class Boy

boy class for all boys

1.2.1 Methods

___init___(*self*, *name*, *atr*, *gfbudget*, *intelli*, *min_atr_req*, *type*)

constructor

is_elligible(*self*, *mbudget*, *atr*)

checks the elligibility of a given Girl, for the current instance of Boy class

2 Module q2_couple

2.1 Variables

Name	Description
___package___	**Value:** `None`

2.2 Class Couple

couple class for all couples

2.2.1 Methods

___init___(*self*, *boy*, *girl*)

constructor

set_happiness(*self*)

set the happiness of a couple

set_compatibility(*self*)

set the compatibility of a couple

3 Module q2_driver

3.1 Functions

allocate()

reads and stores the input from the boys.csv and girls.csv files and then makes the valid couples

calculate_happiness(C)

reads and stores the inputs from the gifts.csv file and sorts the gifts in ascending order of price

hp_miser(GFT, c)

provides gifting logic for Miser type Boys and sets the Happiness of the commited Boy and Girl and the whole couple, also sets the Compatibility of the couple

hp_generous(GFT, c)

provides gifting logic for Generous type Boys and sets the Happiness of the commited Boy and Girl and the whole couple, also sets the Compatibility of the couple

hp_geek(GFT, c)

provides gifting logic for Geek type Boys and sets the Happiness of the commited Boy and Girl and the whole couple, also sets the Compatibility of the couple

print_gifts(C)

prints all the Gifts gifted by Boyfriend for all the Couples

print_hc(C, k)

prints the k most Happy Couples and k most Compatible Couples

3.2 Variables

Name	Description
___package___	**Value:** `None`

4 Module q2_gifts

4.1 Variables

Name	Description
___package___	**Value:** `None`

4.2 Class Gift

gift class for all essential gifts

4.2.1 Methods

___init___(*self*, *name*, *price*, *value*, *type*)

constructor

5 Module q2_girls

5.1 Variables

Name	Description
___package___	**Value:** `None`

5.2 Class Girl

girl class for all girls

5.2.1 Methods

___init___(*self*, *name*, *atr*, *mbudget*, *intelli*, *type*)

constructor

is_elligible(*self*, *gfbudget*)

checks the elligibility of a given Boy, for the current instance of Girl class

6 Module q2_utility

6.1 Functions

utility()

creates the input csv files

create(*file*, *list*)

writes to csv files

6.2 Variables

Name	Description
___package___	**Value:** `None`

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