q1

```
q1
+readTextFileByLines(fileName : String) : List<String>
+couplify(b : Boys[], g : Girls[]) : void
+main(args : String[]) : void
```

q2

```
q2
+readTextFileByLines(fileName : String) : List<String>
~search(girlfriend : String, g : Girls[]) : int
+giftify(b : Boys[], g : Girls[], happinessarray : Happyfy[]) : void
~q2()
```

q3

```
q3
~q3()
+main(args : String[]) : void
```

Boys

```
Boys
~name : String
~girlfriend : String
~attractiveness : int
~maintainencebudget : double
~intellilevel : int
~minattractreq : int
~committed : boolean
~type : String
~happiness : double
+Boys(str : String[])
```

Girls

```
Girls
~name : String
~attractiveness : int
~maintainencebudget : double
~intellilevel : int
~criterion : String
~committed : boolean
~boyfriend : String
~type : String
~happiness : double
+Girls(str : String[])
```
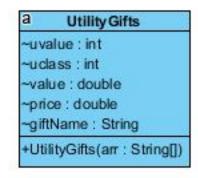
LuxuryGifts

```
LuxuryGifts
~rating : int
~difficulty : int
~value : double
~price : double
~giftName : String
+LuxuryGifts(arr : String[])
```

UtilityGifts

```
UtilityGifts
~uvalue : int
~uclass : int
~value : double
~price : double
~giftName : String
+UtilityGifts(arr : String[])
```

EssentialGifts

```
EssentialGifts
~price : double
~value : double
~giftName : String
+EssentialGifts(arr : String[])
```

Happyfy

```
Happyfy
~boyfriend : String
~girlfriend : String
~happiness : double
+Happyfy(boyfriend : String, girlfriend : String, happiness : double)
```