

Java Foundations

Exercises for: Objects and Classes



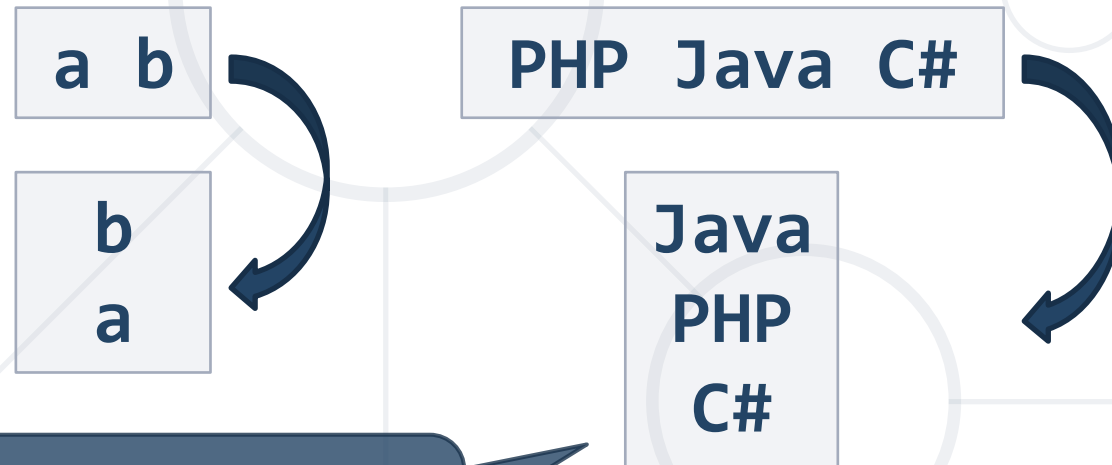
```
class  
DateTime  
  
Day: int  
Month: int  
Year: int  
  
AddDays(...)  
Subtract(...)
```

```
object  
peterBirthday  
  
Day = 27  
Month = 11  
Year = 1996
```



Problem: Randomize Words

- You are given a list of words
 - Randomize their order and print each word on a separate line



**Note: the output is a sample.
It should always be different!**

Problem: Big Factorial

- Calculate $n!$ (n factorial) for very big n (e. g. 1000)

5 → 120 10 → 3628800 12 → 479001600

50 →
3041409320171337804361260816606476884437764156
8960512000000000000

88 →
1854826422573984391147968456455462843802209689
4939934668442158098688956218402819931910014124
48045018284166335168512000000000000000000000000000

- Read students until you receive "**end**" in the following format:
 - "**{firstName} {lastName} {age} {hometown}**"
 - Define a class **Student**, which holds the needed information
 - If you receive a student which already exists (matching **firstName** and **lastName**), overwrite the information
- After the end command, you will receive a city name
- Print students which are from the given city in the format:
"{firstName} {lastName} is {age} years old."

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