

Assignment

We have a zoo, and want to know how much money we need to spend feeding the animals in a day.

Description

There are 2 types of food: meat and fruit.

Each of these will have a price per kg that will be provided in a text (.txt) file following the next strict format (with strict format we mean that when processing the file, it is not needed to protect the system from syntax errors):

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File: prices.txt

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Meat=12.56

Fruit=5.60

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The zoo has 3 different types of animals: carnivores, herbivores and omnivores. The first only eat meat, the second, only fruit, and the third eat both.

Each animal eats an amount of food that depends on its weight. For each animal type, there is a rate that determines how much food the animal needs.

The file *animals.csv* provides information about which animal species can exist in the zoo, and their rates.

For the omnivore animals, this rate needs to be split into fruits and meat. A percentage is also given to show how much of that rate must be covered with meat

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File: animals.csv (strict comma separated format)

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Lion;0.10;meat;

Tiger;0.09;meat;

Giraffe;0.08;fruit;

Zebra;0.08;fruit;

Wolf;0.07;both;90%

Piranha;0.5;both;50%

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A third file (*zoo.xml*) will tell us the content of our zoo

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File: zoo.xml

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<Zoo>

<Lions>

<Lion name='Simba' kg='160'/>

<Lion name='Nala' kg='172'/>

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<Lion name='Mufasa' kg='190'/>
</Lions>
<Giraffes>
  <Giraffe name='Hanna' kg='200'/>
  <Giraffe name='Anna' kg='202'/>
  <Giraffe name='Susanna' kg='199'/>
</Giraffes>
<Tigers>
  <Tiger name='Dante' kg='150'/>
  <Tiger name='Asimov' kg='142'/>
  <Tiger name='Tolkien' kg='139'/>
</Tigers>
<Zebras>
  <Zebra name='Chip' kg='100'/>
  <Zebra name='Dale' kg='62'/>
</Zebras>
<Wolves>
  <Wolf name='Pin' kg='78'/>
  <Wolf name='Pon' kg='69'/>
</Wolves>
<Piranhas>
  <Piranha name='Anastasia' kg='0.5'/>
</Piranhas>
</Zoo>
=====
```

Additional notes

When solving the task please use Dependency Injection.

Deliverables

Please send us a full solution, including **unit tests**. Exclude binaries since they might be rejected by malware scanner.