

Recruitment Test Backend Java

Solve the following tasks as if you were part of a team and providing a production-ready feature used extensively by others. If you are familiar with unit testing please add unit tests that seem useful.

Task 1

Please create the following classes choosing data types that make the most sense:

Person

- has attribute birthday
- has attribute height
- has attribute name
- method to get the current age
- method to print human readable info about this person to the console (should also include Children, Parents, Grandparents, etc. if available)
- static method to sort List of Person by age with boolean option for ascending or descending
- static method to sort List of Person by height with boolean option for ascending or descending

Grandparent is a Person

- can have multiple Children
- method to print Children to console
- method to print Grandchildren to console

Parent is a Person

- can have multiple Parents
- can have multiple Children
- method to print Parents to console
- method to print Children to console

Child is a Person

- can have multiple Parents
- method to print Parents to console
- method to print Grandparent to console

Task 2

The console receives an input in the following form:

```
31.07.1999 Boris Brand 187cm 04.06.1981 Lena Lange 169cm 09.12.1987 Thomas Brecht 179cm 12.03.1982 Laura Müller 179cm ...
```

Read the data and print the names sorted by ascending height to the console.

- If two heights are the same, sort ascending by age.
- Don't allow a name length shorter than 3 or longer than 12 characters.
- Don't allow a height smaller than 150cm and taller than 200cm.
- Don't allow an age smaller than 18 years or greater than 100 year.