

# Training materials

- The Java Tutorials. [Lesson: Interfaces and Inheritance](#).
- **Course on learn.epam.com Java.Classes.**
- И. Блинов. Глава 4: стр. 97-114.
- Сайт skiry.ru. Наследование как явление.
- Сайт skiry.ru. Overloading, overriding и другие звери.

## Code Exercise

Create the package `by.epam.lab` for entity classes.

Define a superclass which represents a candidate trial and three subclasses: `LiteTrial`, `StrongTrial` (see oop2021, Развитие проекта) and `ExtraTrial`.

Last trial contains an additional test. This trial is passed if the base trial is passed and the mark on the additional test is greater than a given subclass constant.

Define the `Runner` class in the **default** package, where:

1. Create an array for 9 objects (3 for a superclass and 2 for every subclass).
2. Output the array content to the console (one element per line).
3. Output trials with the average value of all marks for a trial less than a half of the `PASS_MARK`.
4. Clear all marks for failed trials.
5. Output the array content to the console (one element per line).
6. Output superclass trials for an account equaled a command line argument.

### Constraints and requirements

- Strongly encouraged to update the source code of entities classes.
- Use minimally required access for class members.