

# Runtime type checking

## Who is who

You are given a class hierarchy consisting of three classes. The base class is `Employee`. The first subclass is `Developer`, the second subclass is `DataAnalyst`.

Implement a method `determineWhoIsWho`. The method takes an array of employees. Each element belongs to one of the listed classes. The method should output the type (**DEV**, **EMP** or **DA**) of each element in a new line.

Use the provided template for your method.

### Output example

```
In [ ]: DEV
        EMP
        DA
```

### Write a program in Java 17

```
In [ ]: import java.util.Arrays;

class Determiner {
    public static void determineWhoIsWho(Employee[] employees) {
        System.out.println("EMP");
    }
}

// Don't change the code below
class Employee {

    protected String name;
    protected String email;
    protected int experience;

    public Employee(String name, String email, int experience) {
        this.name = name;
        this.email = email;
        this.experience = experience;
    }

    public String getName() {
        return name;
    }

    public String getEmail() {
        return email;
    }

    public int getExperience() {
        return experience;
    }
}
```

```

    }
}

class Developer extends Employee {

    private String mainLanguage;
    private String[] skills;

    public Developer(String name, String email, int experience, String mainLanguage, String[] skills) {
        super(name, email, experience);
        this.mainLanguage = mainLanguage;
        this.skills = skills != null ? skills : null;
    }

    public String getMainLanguage() {
        return mainLanguage;
    }

    public String[] getSkills() {
        return Arrays.copyOf(skills, skills.length);
    }
}

class DataAnalyst extends Employee {

    private boolean phd;
    private String[] methods;

    public DataAnalyst(String name, String email, int experience, boolean phd, String[] methods) {
        super(name, email, experience);
        this.phd = phd;
        this.methods = methods != null ? methods : null;
    }

    public boolean isPhD() {
        return phd;
    }

    public String[] getMethods() {
        return Arrays.copyOf(methods, methods.length);
    }
}

```

Source: [JetBrains Academy](#)

In [ ]: