ООР номеwork 4 (23 сентября 2015 г.)

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qithub: abcdw

Problem 1. Class is a description of set of objects with similar properties. Class like a baking pan and object like a pie, baked with that pan.

Problem 2.

- STRING 8
- REAL 64
- REAL 64

Queries:

- Zurich.line(13).color.brightness
- Zurich.line(31).stations.at(3).item.position.y
- Zurich.line(31).next.station(Zurich.station("Loewenplatz"), Zurich.line(31).west_terminal)
- Zurich.station("Paradeplatz").lines.count
- Zurich.connecting_lines(Zurich.station("Paradeplatz"), Zurich.station("Rennweg")).has(Zurich.lin

Problem 3.

```
BUSINESS_CARD
create
        fill_in
feature {NONE} -- Initialization
        fill_in
                         -- Fill in the card and print it.
                do
                         io.put_string ("Your name:")
            io.read_line
                         set_name(io.last_string)
                         io.put_string ("Your job:")
                         io.read_line
                         set_job(io.last_string)
                         io.put_string ("Your age:")
                         io.read_integer
                         set_age(io.last_integer)
                         print_card
                end
```

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```
feature -- Access
        name: STRING
                         -- Owner, s name.
        job: STRING
                         -- Owner's job.
        age: INTEGER
                         -- Owner's age.
feature -- Setting
        set_name (a_name: STRING)
                         -- Set 'name' to 'a_name'.
                require
                        name_exists: a_name /= Void
                do
                        name := a_name.twin
                end
        set_job (a_job: STRING)
                         -- Set 'job' to 'a_job'.
                require
                         job_exists: a_job /= Void
                do
                         job := a_job.twin
                end
        set_age (a_age: INTEGER)
                         -- Set 'age' to 'a_age'.
                require
                         age_non_negative: a_age >= 0
                do
                         age := a_age
                end
feature -- Output
        age_info: STRING
                         -- Text representation of age on the card.
                do
                        Result := age.out + " years old"
                end
        Width: INTEGER = 50
                         -- Width of the card (in characters), excluding borders.
```

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```
line (n: INTEGER): STRING
                -- Horizontal line on length 'n'.
        do
                Result := "#"
                Result.multiply (n)
        end
spaces (n: INTEGER): STRING
                -- Spaces in card
        do
                Result := " "
                Result.multiply (Width - n - 2)
        end
print_card
                -- Printing card
        do
                io.put_string(line (Width))
                io.put_new_line
                io.put_string ("#" + name.out + spaces(name.count) + "#")
                io.put_new_line
                io.put_string ("#" + job.out + spaces(job.count) + "#")
                io.put_new_line
                io.put_string ("#" + age_info + spaces(age_info.count) + "#")
                io.put_new_line
                io.put_string(line(Width))
        end
```

end

Problem 4. You can find me. Andrew Tropin.

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