Solution 2: Give me your feature name and I'll call you

ETH Zurich

1 Adding more feature calls

Listing 1: More feature calls

```
explore is
        −− Show city info and a route.
    do
        Paris. display
        −− Louvre.spotlight
        −− Line8.highlight
        −− Route1.animate
        −− Console.show (Route1.origin)
        Station_invalides . highlight
        short_wait
        line_section  (Line8,  Station_invalides ,  Station_concorde). highlight
        short_wait
        Station_concorde. highlight
        short_wait
        line_section  (Line1,  Station_palais_royal_musee_du_louvre ,  Station_concorde).
            highlight
        short_wait
        Station_palais_royal_musee_du_louvre . highlight
        short_wait
    end
```

2 Introducing yourself

Listing 2: Introduction

```
execute
        −− Run application.
    do
        Io. put_string  ("Name: ")
        Io. put_string  ("John Smith")
        Io. new_line
        Io. put_string  ("Age: ")
        Io. put_integer  (20)
        Io. new_line
        Io. put_string  ("Mother tongue: ")
        Io. put_string  ("English")
        Io. new_line
        Io. put_string  ("Has a cat: ")
        Io. put_boolean  (True)
```

end

3 Command or Query?

1. *is_exchange* is a query.

2. *set_location* is a command.

3. *outgoing_line_connections* is a query.

4. *name* is a query.

5. *highlight* is a command.

6. *has_stop* is a query.

4 Valid feature call instructions

1. This is invalid code: The command *show* can only be followed by arguments, it is not possible to call another feature on a command.

2. This is valid code: The target is *Station_balard* and the argument is a valid expression.

3. This is invalid code: The argument *Line8.highlight* contains a command and thus is invalid.

4. This is valid code: The target is *Line2.city* and the argument is a valid expression.

5. This is valid code: The target is *Console* and the argument is composed only of queries.

6. This is valid code: The target is *Console* and the argument is composed only of queries (with nested arguments).

7. This is invalid code: The argument contains the command *set_location* .