POS
Wintersemester 2016/2017

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Exercise Sheet 5
November 16: Pattern Theory & Proxy

Exercise 1

The following patterns are examples of patterns in "real" (building) architecture as described by Christopher Alexander:

1. 17 Ring Roads
2. 21 Four Store Limit
3. 23 Parallel Roads
4. 59 Quiet Backs
5. 61 Small Public Squares
6. 87 Individually Owned Shops
7. 88 Street Cafes
8. 105 South Facing Outdoors

Get together in pairs and try to discover "your" pattern in the university's environment! Document with a photo (cellular phone ok) and upload onto the Wiki!

Exercise 2

Try to discover additional patterns in the university's environment!!

Exercise 3

Please find at least 4–5 different examples for the proxy pattern for all application areas (remote, expensive to create, securing).

Implement a class "PrimeChecker" with one method `public boolean isPrime(int number)`. As creation and checking of big prime numbers can be pretty time consuming, it's your task to develop a caching proxy.

Hints

- Consult the literature!
- You can work in pairs, if you want!
- If you want to learn a Java API, look into the java docs!
- Always use the same familiar IDE (suggestion Eclipse)!