RECOMMENDED PROGRAMMING PRACTICES
ASSIGNMENT 2

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Assignment 2

- Make pairs in the Submission System
  - Deadline is 25. 3. 2018 23:59:59
  - You can use the mailing list to find a partner
- Design an API for a library for manipulation with .ini files
- Detailed assignment description is [here](#)
- You are supposed to create
  - Source code
    - Java, C, C++, C#, different language if permitted after consultation
  - Documentation
    - Short example of usage
    - Justification of your design
Assignment 2

- **Definitions:**
  - **Identifier** – string of characters from the set \{a-zA-Z0-9_~-.::$ space\} beginning with a character from set \{a-zA-Z.$:\}
  - **Section** – part of configuration file labeled by identifier
  - **Option** – ordered pair (identifier, value) within some section
  - **Element** – text representing partial or complete value defined by an identifier of an option.
Example

[Section 1]
; Comment
Option 1 = value 1 ; option ‘Option 1’ has the value ‘value 1’
option 1 = \ value 2 \\

[$Section::subsection]
Option 2=value 1:value 2:value 3
Option 3 =value 1, ${Section 1#Option 1}
Option 4= v1,${$Section::subsection#Option 3},v2
Option 5= v1, v2:v3

[Numbers]
integer = -1285
integer_bin = 0b01101001
integer_hex = 0x12ae,0xAC2B
integer_oct = 01754

float1 = -124.45667356
float2 = +4.1234565E+45
float3 = 412.34565e45
float4 = -1.1245864E-6

[Other]
bool1 = 1
bool2 = on
bool3=f
• option ‘Option 1’ has the value ‘value 1’
• option ‘oPtion 1’ has the value ‘value 2’
• ‘oPtion 1’ and ‘Option 1’ are different options
• option ‘Option 2’ is a list of values ‘value 1’, ‘value 2’ and ‘value 3’
• option ‘Option 3’ is a list of values ‘value 1’ and ‘value 1’
• option ‘Option 4’ is a list of values ‘v1’, ‘value 1’, ‘value 1’, ‘v2’
• option ‘Option 5’ is a list of values ‘v1’ and ‘v2:v3’, or ‘v1, v2’ and ‘v3’ depending on the selected separator
Assignment 2

• Submission
  ▪ Deadline is 2. 4. 2018
  ▪ Source code + example of usage
  ▪ Documentation (Javadoc, Doxygen)
  ▪ Description of your design decisions