

RECOMMENDED PROGRAMMING PRACTICES

ASSIGNMENT 2

<http://d3s.mff.cuni.cz>



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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 $\{a-zA-Z0-9_~-.:\$ \text{space}\}$ 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.

Assignment 2

● Example

```
[Section 1]
; Comment
Option 1 = value 1
oPtion 1 = \ value 2\ \ \ ; option 'Option 1' has the value 'value 1'
```

```
[$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
```

Assignment 2

- 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