

Implementační dokumentace k 1. úloze do IPP 2022/2023
Jméno a příjmení: Vsevolod Tiemnohorov
Login: xtiemn00

1 Command line arguments processing

Only one acceptable command line argument for my program is `-help` which shows how to execute program correctly.

2 IPPCode23 analysis and XML code generation

First of all my program checks if there is standard header and if it appears only once, then it starts to create tokens (one line of `IPPCode23` code is one token). I implemented class `Token` for this, which has a constructor that calls method `create_token`, that process instruction and every argument. Method `create_token` uses some helper methods (`process_var`, `process_symb`, `process_type`, `process_label`) that tests every argument to check if it contains allowed symbols. After this method `create_token` saves instruction name, amount of arguments and every argument to object variables. For generation i have a method `generate` that uses helper method `format_xml` which exchanges "&" with "&"; ">" with "<"; and "<" with ">"; for correct output in XML format. After this method `generate` prints out every token in correct format.