Programming Practices (PRP-304)

Lab	Coding (Linux)	Program Environment (Linux+Windows)	Coding Practices
I	Set union and find operations	Installing software from source code/binary packages, software construction tools	
2	Simple string matching	Run HTTP/HTTPS/FTP services , doxygen	Working with classes
3	Floyd-Warshall's algorithm	Basic HTML, CSS, XML, PHP, PHP-templates (with simple mySQL queries, forms)	Creating high quality routines
4	BFS and DFS searches using queue/stack	GUI basics: Multi-frame for forms, calculator using win32 (for Windows) and Qt (Linux+Windows)	Defensive programming
5	Backtracking: 8-queen problem	Automated sequence of jobs	Pseudocode programming
6	Tables, Information, Memoization	Links, Bazaar VCS	Using variables – I
7	Hashing	Threads	Using variables – 2
8	Simple string manipulations	Daemons and services	Fundamental data types
9	Linked lists stored in a binary tree	Signals	Unusual data types
10	Trie trees (insert, find, delete)	File truncation, file size information, setting file attributes, random record updates, file locks	Organizing code
11	AVL (insert, find, delete)	Create and use library files	Using conditionals
12	RB-tree (insert, find, delete)	Simple shell scripting using sed, awk, wget, grep, curl, crontab, cut, imagemagick, ping, rsncy, ssh, sftp, <i>etc.</i> (Linux only)	Unusual code structures
13	B+-tree (insert, find, delete) stored in a binary tree		