Lab Session n. 3: report

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1 Introduction

In this report I will provide the results I achieved with complete enumeration algorithms.
Since in assignment 3 I needed to modify the source-code, to be able to test both and to keep both implementations without duplicating the code I used a macro definition `ASSIGN3` which works like a light-switcher: to compile the source for assignment3, just uncomment the flag in the Makefile.
I know it is the wrong choice for readability.

2 Technical aspects

The machine used has:

CPU: Intel i5-8250U @ 3.40 GHz

RAM: 8 GB

Operating System: Linux Fedora 33

Tests were done with 3 minutes runtime (command `timeout 180`).
Sources are compiled through `make` with `C++17`.

3 Assignment 2

Instance	Enumeration result
wlp-1	**<u>1931</u>**
wlp-2	**<u>1891</u>**
wlp-3	**<u>4553</u>**
wlp-4	**<u>4366</u>**
wlp-5	**<u>3530</u>**
wlp-6	4291
wlp-7	5453
wlp-8	==UNKNOWN==
wlp-9	==UNKNOWN==
wlp-10	==UNKNOWN==

4 Assignment 3

Instance	Enumeration enhanced result	Improvement %
wlp-1	**<u>1931</u>**	0
wlp-2	**<u>1891</u>**	0
wlp-3	**<u>4553</u>**	0
wlp-4	**<u>4366</u>**	0
wlp-5	**<u>3530</u>**	0
wlp-6	4180	2.6
wlp-7	5453	0
wlp-8	==UNKNOWN==	0
wlp-9	==UNKNOWN==	0
wlp-10	==UNKNOWN==	0