

SWISH

This assignment is **individual**.

Deadline: The deadline is **October 27, 2023, 16:59** and it is strict.

Submission: Please, submit your solution in Canvas as a single text file.

1 SWISH

In this exercise we are going to solve a puzzle using Prolog. For that, you are going to use an online editor called SWISH [1]. The website also provides users with examples and tutorials; check, for instance, the Einstein's Riddle example.

For this exercise, let's suppose a group of 4 friends (p1, p2, p3 and p4). Each of them has a preference on which is the best season of the year (summer, fall, winter, spring), and each plays a different sport (football, Dota2, tennis, LoL). Each of them lives either in a house or an apartment and is currently either an employee, a student or unemployed.

We know that two people are neighbors if they live in the same type of housing. Furthermore, we know the following facts:

- F1: p1 lives in a house;
- F2: p4 plays tennis;
- F3: p3 plays football;
- F4: The person that plays football is an employee;
- F5: The person who likes spring seasons is currently unemployed;
- F6: The summer lover plays football, the fall lover plays Dota2, the winter lover plays tennis, and the spring lover plays LoL;
- F7: The person who plays Dota2 lives in a house and is currently an employee;
- F8: The person who loves winter does not live in a house and is a student;
- F9: p2 and p4 are neighbors;
- F10: The person who loves summer is a neighbour of p2, but not of p1;
- F11: A neighbour of p3 plays tennis;

Download the file **SWISH.txt** from Canvas and paste its contents in the online editor [1]. The skeleton of the problem is ready. Your task is to fill in the missing facts.

How to submit: Under the assignment SWISH, upload SWISH.txt. Make sure that your submitted file does not contain syntax errors.

REFERENCES

- [1] An online Prolog editor and solver, <https://swish.swi-prolog.org/>