TD 2

Grammars and attributes

EXERCISE #1 ▶ **XML Files**

We give the following grammar:

```
L ->E L
|
E -> A L B
|    ident
A -> < ident >
B -> </ ident >
```

1. Give the derivation tree for the chain <html><head>toto</head>titi</foo>.

2. Attribute this grammar to verify that opening and closing tags refer to the same identifiers.

EXERCISE #2 ▶ **Variable declarations**

Write a grammar that accepts declarations of variables like:

```
int x=1;
float y,z;
int t;
float u,v=0;
```

and rejects:

```
int x, int y;
```

Then write an attribution that prints individual declarations (of the first case) like:

```
int x=1; float y; float z; int t; float u; float v=0;
```