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\* An example of Flix for syntax highlighting.

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// Here is a namespace.

namespace a.b.c {

// Here are some literals.

def b: Bool = true

def c: Char = 'a'

def f: Float = 1.23

def i: Int = 42

def s: Str = "string"

// Here are some relations.

rel LitStm(r: Str, c: Int)

rel AddStm(r: Str, x: Str, y: Str)

rel DivStm(r: Str, x: Str, y: Str)

// Here is a lattice.

lat LocalVar(k: Str, v: Constant)

// Here is an index.

index LitStm{{r}, {r, c}}

// Here is an enum.

enum Constant {

case Top,

case Cst(Int),

case Bot

}

// Here is a function.

def leq(e1: Constant, e2: Constant): Bool = match (e1, e2) with {

case (Constant.Bot, \_) => true

case (Constant.Cst(n1), Constant.Cst(n2)) => n1 == n2

case (\_, Constant.Top) => true

case \_ => false

}

// Here are some rules.

LocalVar(r, alpha(c)) :- LitStm(r, c).

LocalVar(r, sum(v1, v2)) :- AddStm(r, x, y),

LocalVar(x, v1),

LocalVar(y, v2).

}