Type definition exercise

Given this new type

define function street: PersonalInfo \rightarrow string that returns the street name for an address, and the empty string for any other kind of value:

Recursive type definitions

In this type definition:

type
$$t = C_1$$
 [of te_1] | ... | C_n [of te_n]

the type expressions te_i can contain t, making the type declaration recursive. This allows for the definition of infinite data types, such as lists and trees, e.g.

```
type mylist = Empty | Cons of int * mylist
let list1 = Cons (3, Cons (4, Empty))
```

Ex: write the function sum : mylist → int.

Exercises: Functions on binary trees

lacksquare Define isLeaf: bintree ightarrow bool

Define sum: bintree → int