```
type 'a churchint == ('a -> 'a) -> 'a -> 'a;;

let zero f x = x;;
let un f x = f x;;
let deux f x = f (f x);;

let eval n = n succ 0;;

let succ_ci n f x = n f (f x);;

let add m n f x = n f (m f x);;
let mult m n f x = m (n f) x;;
let exp m n f x = m n f x;;

let trois f x = add deux un f x;;
let quatre f x = mult deux deux f x;;
let six f x = mult deux trois f x;;
let huit f x = exp trois deux f x;;
let neuf f x = exp deux trois f x;;
map eval [zero; un; deux; trois; quatre; six; huit; neuf];;

let dix_huit = add neuf neuf in
dix_huit succ 0,
dix_huit sqrt 10.
```