

```
type Nat = Zero | Succ of Nat
```

```
let rec sum n1 n2 =  
  match (n1,n2) with  
  | Zero,x -> x  
  | Succ(x1),x2 ->  
    sum x1 (Succ x2)
```

```
let rec convert x =  
  match x with  
  | 0 -> Zero  
  | x when x > 0 -> Succ(convert (x-1))  
  | _ -> failwith ""
```