```
type List = Nil | Cons (val:i32, tail:List).

fn mk_list_impl (n:i32, i:i32, l:List):List =
  if i ≥ᵤ n then l
  else make_list_impl(n, i+1, Cons(i,l)).

fn mk_list (n:i32) : List =
  mk_list_impl(n, 0, Nil).
```