

Isabelle/HOL Exercises

Lists

SNOC

Define a primitive recursive function *snoc* that appends an element at the *right* end of a list. Do not use *@* itself.

consts

```
snoc :: "'a list => 'a => 'a list"
```

Prove the following theorem:

```
theorem rev_cons: "rev (x # xs) = snoc (rev xs) x"
```

Hint: you need to prove a suitable lemma first.