

1. Implementá el TAD Pila utilizando la siguiente representación:

implement Stack of T where

type Stack of T = List of T

```
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```

```
constructors
```

```
  fun empty_stack() ret s: Stack of T  
    s := empty_list()  
end fun
```

```
  proc push(in e: T, in/out s: Stack of T)  
    addl(s,e)  
end proc
```

```
operations
```

```
  fun is_empty_stack(s: Stack of T) ret b: bool  
    b := is_empty_list(s)  
end fun
```

```
  {- PRE: not is_empty_stack(s) -}
```

```
  fun top(s: Stack of T) ret e: T  
    e := head(s)  
end fun
```

```
  {- PRE: not is_empty_stack(s) -}
```

```
  proc pop(in/out s: Stack of T)  
    tail(s)  
end proc
```

```
end implement
```