Practica 7 - Especificaciones

Ejercicio 1

- $f. xs = \langle \forall_i : 0 < i < \#xs : xs. i = xs.0 \rangle$
- $f. xs = \langle \forall_{i,j} : 0 \le i < j < \#xs : xs. i \ne xs. j \rangle$
- $P. xs = \langle \exists_i : 0 \le i < \#xs : xs. i = 1 \rangle \Rightarrow \langle \exists_i : 0 \le i < \#xs : xs. i = 0 \rangle$

Ejercicio 2

- $\langle Min_i : 0 \le i < \#xs : xs. i = True \rangle$
- $\langle Max_i : 0 \le i < \#xs : xs. i = True \rangle$
- $f. xs = \langle \forall_i : 0 < i < \#xs : xs. i = xs.0 \rangle$

Ejercicio 3

- $f. xs = \langle N_i : o \le i < \#xs : par. (xs. i) \rangle = \langle N_i : 0 \le i < \#xs : impar. (xs. i) \rangle$
- f. n = |n| > 1 $\land \neg (\exists_k : 2 \le k \le \sqrt{n} : n \mod k = 0)$
- $espejo. xs = \langle \forall_i : 0 \le i < \#xs : xs. (\#xs (i + 1)) \rangle$
- $f. xs = \langle \exists_{as,bs,cs} :: xs = as + bs + cs \land \#bs > 1 \land \langle \forall_i : 0 \le i < \#bs : bs. i = bs. (\#bs (i+1)) \rangle \rangle$
- $f. xs. ys = \langle \exists_{as,bs} :: xs = as + ys + bs \rangle$
- $f. xs. ys = \langle \exists_{as} :: xs = as + ys \rangle$

Ejercicio 4

- $P. xs. ys = \langle \exists_{as,bs} :: xs = as + ys + bs \rangle$
- $\langle Min_{as,bs,cs} : xs = as + bs + cs : sum. bs \rangle$
- maxigual. $xs = \langle Max_{as,bs,cs} : xs = as + bs + cs \land \langle \forall_i : 0 < i < \#bs : bs. i = bs.0 \rangle : \#bs \rangle$

Ejercicio 5

- "Determinar si todos los elementos de la lista son mayores o iguales a cero"
- "Determinar si existe un elemento de la lista menor que el que le sigue"
- "Determinar si algún elemento de la lista es cero"
- "Determinar si todos los elementos de la lista son iguales"