Facultad de Ciencias UNAM
Lógica Computacional
Pruebas para práctica 2

Profesor: Francisco Hernández Quiroz
Ayudante: Valeria Garcia Landa
Ayudante de laboratorio: Sara Doris Montes Incin

1.   varForm :: LP −> [Indice]

- Main> varForm (Or (Var 1) (Neg (And (Var 2) (Var 3))))
  [1,2,3]
- Main> varForm (Imp (And (Var 1) (Var 4)) (Or (Neg(Var 3)) (And (Var 4) (Var 5))))
  [1,4,3,5]

2.   conjuntoPot :: [a] −> [[a]]

- Main > conjuntoPot [1,2,3]
  [[],[3],[2],[2,3],[1],[1,3],[1,2],[1,2,3]]
- Main > conjuntoPot [2,4,6,8,10]
  [[],[10],[8],[8,10],[6],[6,10],[6,8],[6,8,10],[4],[4,10],[4,8],
  [4,8,10],[4,6],[4,6,10],[4,6,8],[4,6,8,10],[2],[2,10],[2,8],[2,8,10],[2,6],
  [2,6,10],[2,6,8],[2,6,8,10],[2,4],[2,4,10],[2,4,8],[2,4,8,10],[2,4,6],
  [2,4,6,10],[2,4,6,8],[2,4,6,8,10]]

3.   esValLP :: LP −> **Bool**

- Main > esValLP (Or(Neg (Var 1)) (Var 1))
  True
- Main > esValLP (Imp (Or (Neg(Var 1)) (Var 3)) (Or (And (Var 4) (Var 5)) (Var 6)))
  False

4.   esSatLP :: LP −> **Bool**

- Main > esSatLP (And (Neg (Var 1)) (Var 1))
  False
- Main > esSatLP (Imp (Or (Neg(Var 1)) (Var 3)) (Or (And (Var 4) (Var 5)) (Var 6)))
  True

5.   quitaImp :: LP–>LP

- Main > quitaImp (Imp (Var 1) (Neg (Var 6)))
  Or (Neg (Var 1)) (Neg (Var 6))
- Main > quitaImp (Imp (Imp (Var 1) (Var 2)) (Or (Imp (Var 5) (Var 6)) (Imp (Var 3) (Var 4))))
  Or (N(Or (Neg (Var 1)) (Var 2))) (Or (Or (Neg (Var 5)) (Var 6)) (Or (Neg (Var 3)) (Var 4)))