inverte (x:[]) = [x]

inverte (x:xs) = inverte (xs)++[x]

palindrome (x:xs) = inverte(x:xs) == x:xs

verifica n ([]) = False

verifica n (x:xs) = if (n==x) then True else verifica n (xs)

intercessao ([]) (ys) = []

intercessao (x:xs) (ys) = if (verifica x (ys)) then x:intercessao (xs) (ys) else intercessao (xs) (ys)

repetidos ([]) = []

repetidos (x:xs) = if (verifica x (xs)) then x:repetidos (xs) else repetidos(xs)

verifica\_menor x ([])= []

verifica\_menor x (x:xs) = if ([x]<[xs]) then [x]:[xs] else verifica\_menor x (xs)