TEST CASES

MAX LIST

?- maxList([3,5,2,23,7,4,1,5],N).

N = 23.

LIST REF

?- listRef([a,b,c,d,e,f],5,R).

R = e .

?- listRef([cat,dog,bird],4,R).

false.

REMOVE DUPLICATES

?- removeDups([q,w,e,r,t,y],X).

X = [w, e, r, t, y, q] .

?- removeDups([1,3,2,3,2,1,4,5],X).

X = [5, 1, 3, 2, 4] .

CHALLENGER PROBLEM (16 MINUTES 35 SECONDS)

?- challenger(17,12,23,25,18,26,26,16,13,23, X1,X2,X3,X4,X5,X6,X7,X8,X9,X10,X11,X12,X13,X14,X15,X16).

X1 = X2, X2 = X3, X3 = X7, X7 = X14, X14 = 1,

X4 = X6, X6 = X9, X9 = X11, X11 = 9,

X5 = 8,

X8 = X12, X12 = X13, X13 = X15, X15 = 5,

X10 = 2,

X16 = 7 ;

X1 = X2, X2 = X3, X3 = X10, X10 = 1,

X4 = X6, X6 = X9, X9 = X11, X11 = 9,

X5 = 8,

X7 = X14, X14 = 2,

X8 = X15, X15 = 4,

X12 = 6,

X13 = 5,

X16 = 7 ;

X1 = X2, X2 = X3, X3 = X7, X7 = X14, X14 = 1,

X4 = X5, X5 = X9, X9 = X11, X11 = 9,

X6 = X16, X16 = 8,

X8 = X15, X15 = 5,

X10 = 3,

X12 = X13, X13 = 4 .