% hanoi(N, Source, Target, Auxiliary, Moves)

% Moves is a list of steps to move N disks from Source to Target using Auxiliary

hanoi(1, Source, Target, \_, [move(1, Source, Target)]).

hanoi(N, Source, Target, Auxiliary, Moves) :-

N > 1,

N1 is N - 1,

hanoi(N1, Source, Auxiliary, Target, Moves1),

Moves2 = [move(N, Source, Target)],

hanoi(N1, Auxiliary, Target, Source, Moves3),

append(Moves1, Moves2, Temp),

append(Temp, Moves3, Moves).

