

```

[> # Tower of Hanoi move counting
[=
[>
[> move := Vector[row](10);
                                move := [ 0 0 0 0 0 0 0 0 0 0 ]
[=
[> count := Vector[row](10);
                                count := [ 0 0 0 0 0 0 0 0 0 0 ]
[=
[> for a from 1 to 10 do
    count[a] := a :
  end do:
[> count
                                [ 1 2 3 4 5 6 7 8 9 10 ]
[=
[> move[1] := 1
                                move1 := 1
[=
[> for b from 2 to 10 do
    move[b] := 2·move[b - 1] + 1 :
  end do:
[> move
                                [ 1 3 7 15 31 63 127 255 511 1023 ]
[=
[> # so, for example, there are 511 moves in a 9 washer tower of hanoi.
[> # The solution is described here recursively, and  $h(n) = 2 \cdot h(n-1) + 1$ .
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