If

$$a = \sqrt{4 - \sqrt{5 - a}}$$
, $b = \sqrt{4 + \sqrt{5 - b}}$,
 $c = \sqrt{4 - \sqrt{5 + c}}$, $d = \sqrt{4 + \sqrt{5 + d}}$.

Determine the value of the product *abcd*.

Hint: A polynomial of degree n always have n roots over the complex numbers, and the product of such roots equals the constant term of the polynomial.

For instance, the polynomial $p(x) = x^4 + 5x^3 - 20x + 18$ has 4 roots in the complex numbers, say the roots are r_1, r_2, r_3, r_4 , then $r_1r_2r_3r_4 = 18$.