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so many fake sites. this is the first one which worked! Many thanks

SOLUTION (Continued Radicals)

By squaring both sides, we get

$$C^2 = m + \sqrt{m + \sqrt{m + \sqrt{m + \dots}}} = m + C,$$

or $C^2 - C - m = 0$, with positive solution

$$C = \frac{1 + \sqrt{1 + 4m}}{2}.$$

In order to have C a positive integer, we must have $1 + 4m = k^2$, where k is an odd integer. This implies that

$$m = \frac{k^2 - 1}{4} = \left(\frac{k-1}{2}\right)\left(\frac{k+1}{2}\right).$$

This means that m must be the product of two consecutive positive integers.

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