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Math Number Theory

## Theorem:

For any Integer (a+b)/2 exist two primes a, b with the same distance d and -d to it.

## **Proof:**

Let *a* and **b** two even or two odd Integers and *a*\**b* the product:

$$a b = \left(\frac{a+b}{2} + \frac{a-b}{2}\right) \left(\frac{a+b}{2} - \frac{a-b}{2}\right)$$
$$=>$$

 $\mathbf{d} = \frac{\mathbf{a} - \mathbf{b}}{2}$ 

Prime numbers **a**, **b** are Integers even or odd

q.e.d.

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