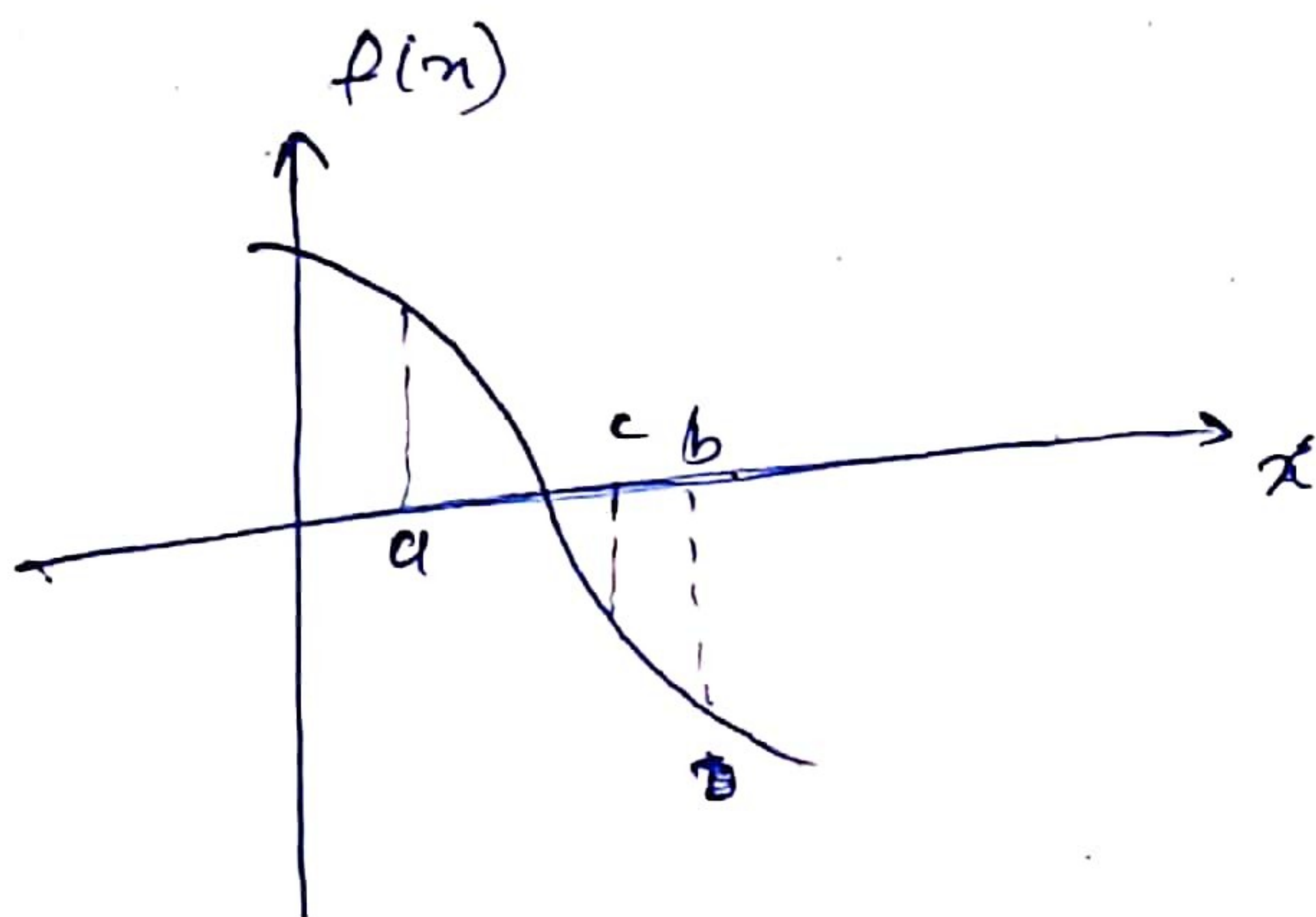


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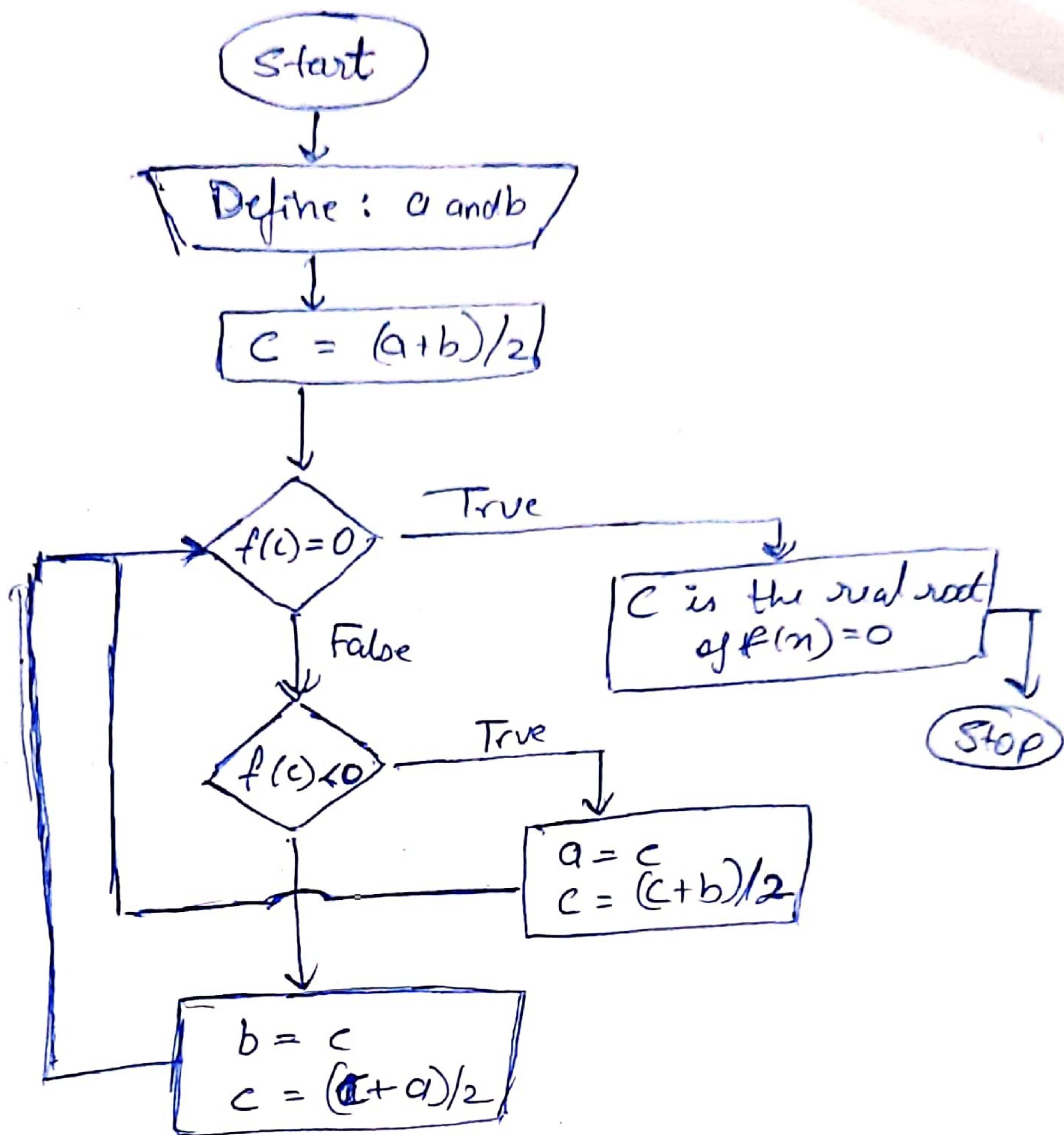
Algorithm

- ① $f(x)$ should be continuous for $x=a$ to $x=b$, such that $f(a) > 0$ and $f(b) < 0$.
- ② Interval halving: Midpoint $c = \frac{a+b}{2}$
- ③ If $f(c) = 0$ then c is one of the real roots of the function.
- ④ Else if $f(c) < 0$, then the root lies between a and c .
- ⑤ Else $f(c) > 0$, then the root lies between b and c .



Ansh

Flow chart



Ans