What does bisection do?: It finds roots of a polynomial

What is required for bisection to work?: A continuous function that Satisfies IVT for some interval

what problem is the fixed point iteration trying to solve?: It is trying to solve for all c that satisfy f(c) = c

- @ This interval was able to find the correct root within the interval. Within this interval it's not possible to find the root X=0 b/c the interval doesn't contain O.
- (b.) This interval returns a value of -1. The method is not Successful for finding any root. The reason is b/c $f(-1) = -7 \quad \text{4} \quad f(0.5) = -0.125 \quad \text{Meaning there is}$

that Satisfy
$$f(c) = C$$

- a) This interval was able to find the correct root within the interval. Within this interval it's not possible to find the root X=0 b/c the interval doesn't contain O.
- (b.) This interval returns a value of -1. The Method is not successful for finding any root. The reason is b/c $f(-1) = -2 \quad \text{4} \quad f(o.s) = -0.125 \quad \text{Meaning there is}$ no Sign change W/ this interval So bisection cant work.
- C. This interval returns the root $X \cong I$. The method is successful for finding the X=1 root but not the X=0 root. This is b/c after the first besection the interval becomes $\left(\frac{-1+2}{2},2\right)=\left(0.5,2\right)$ So the X=0 root has no possibility of become found.