Tarea clase 1

- Solucionar el algoritmo de calculo de la Raiz :

Si x = 2

Entonces b = 2



Diagrama de flujo:
INICIO → lea x → b←x → $b = \frac{x}{b}$ ? NO → $b \leftarrow \frac{1}{2}(\frac{x}{b}+b)$ ; SI → Escriba $\sqrt{x}=b$ → FIN

① 
$$b = \frac{x}{b}$$
$$b = \frac{2}{2}$$
$$b \sim 1$$

1 = 2
↓
1 ≠ 2

$$b = 0.5 \left(\frac{2}{2}+2\right)$$
$$b = 1.5$$

$$1.5 = \frac{2}{1.5}$$
$$1.5 \neq 1.33$$

③
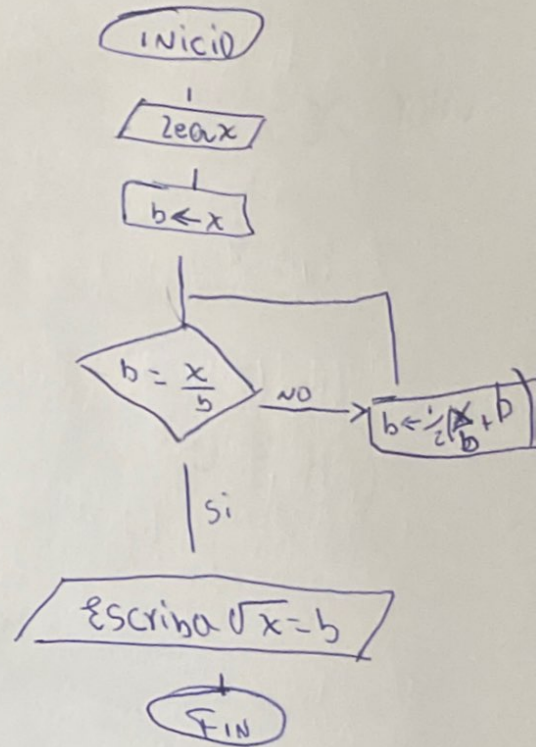$$b = 0.5 \left(\frac{2}{1.4166} + 1.4166\right)$$
$$b = 1.414212$$

$$1.414212 \neq 2$$
$$1.414212 \neq \frac{2}{1.414212}$$
$$1.414212 \neq 1.414215$$

②
$$b = 0.5 \left(\frac{2}{1.5} + 1.5\right)$$
$$b = 1.4166$$

$$1.4166 = \frac{2}{1.4166}$$
$$1.4166 \neq 1.4118$$

④
$$b = 0.5 \left(\frac{2}{1.414212} + 1.414212\right)$$
$$b = 1.414213$$

$$1.414213 = \frac{2}{1.414213}$$
$$1.414213 \neq 1.414214$$

⑤
$$b = 0.5 \left(\frac{2}{1.414213} + 1.414213\right)$$
$$b = 1.414213$$

⑥
$$\sqrt{2} = 1.414213$$