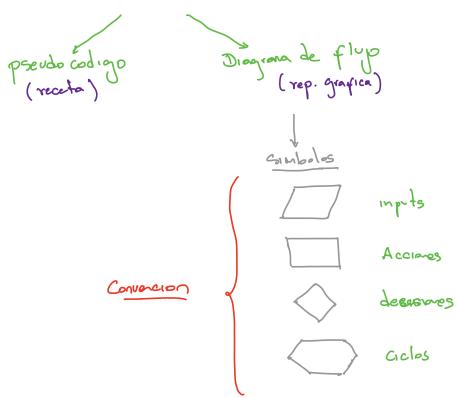
Clase prenda -> Fond. de programación

Algorituss -> List. de instrucciones (ordenada)

para realizar una

Tarea



Ejercico

Sea ax²+bx+c=0. Realizar algoritmo para que se preda determinar Si la cc. tiere solveian real dados los coef. a,by C.

pseudo-codigo (imput = output)

$$\left\{\chi = -b + \sqrt{b^2 - 4ac}\right\}$$

$$\frac{61 \text{ NO}}{\text{(else)}}$$

$$D = b^2 - 4ac$$

$$51 D \ge 0$$

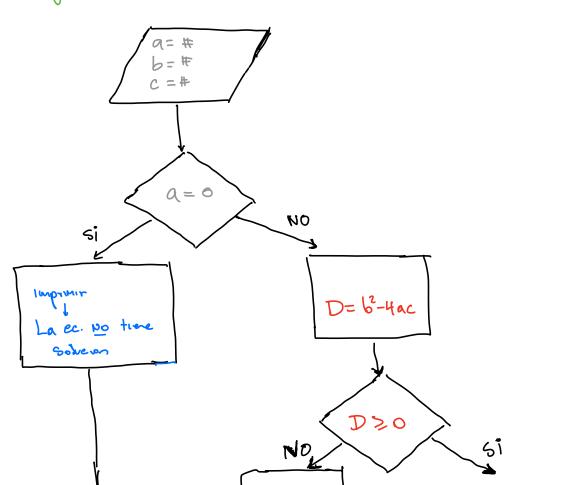
<u>SI</u> D>0:

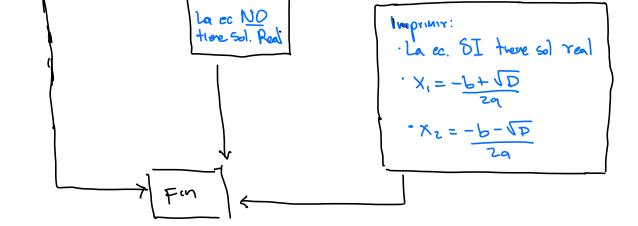
Imprier (" la ec. fiere solcon real")
$$X_{1} = -b + \sqrt{D} \longrightarrow \text{salida}$$

$$X_{2} = -b - \sqrt{D} \longrightarrow \text{salida}$$

$$X_{3} = -b - \sqrt{D} \longrightarrow \text{salida}$$

Diagrama de Flyro





Problema

Problema

Sea
$$i = 0,1,...,100$$
. Enandre $X = \sum_{i=0}^{100} i$

Draponga el d. de plujo para un algoritmo que calcule X.

pserdo-codios

$$\left(S=S+i^{2}\right)$$

$$\sum_{i=0}^{10} i^2 = (o)^2 + (i)^2 + (2)^2 + (3)^2 + \dots + (10)^2$$

paso i=0
$$S = 0 + (0)^2 = 0$$

paso i=1 $S = 0 + (1)^2 = 1$
paso i=2 $S = 1 + (2)^2 = 5$
paso i=3 $S = 4 + (3)^2 = 14$