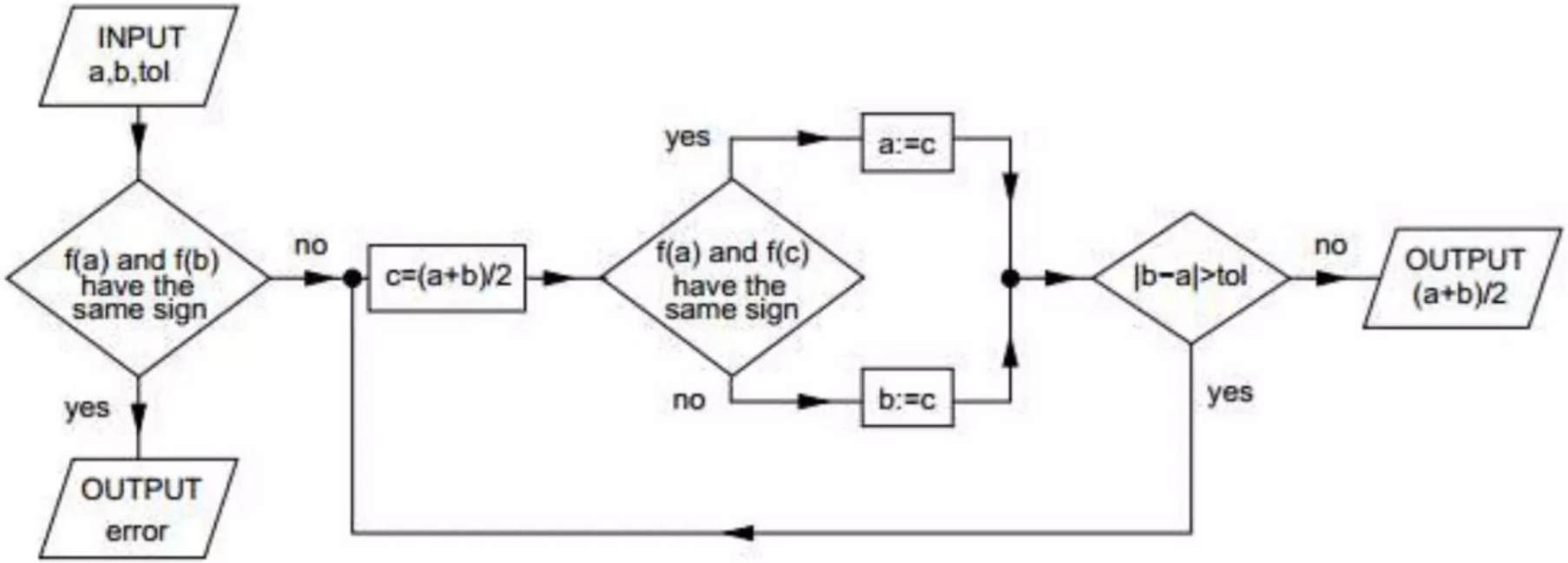
Flow Chart:


INPUT
a,b,tol
f(a) and f(b)
have the
same sign
yes
OUTPUT
error
no
c=(a+b)/2
f(a) and f(c)
have the
same sign
yes
a:=c
no
b:=c
|b−a|>tol
no
OUTPUT
(a+b)/2
yes