Pseudocode:

Algorithm: Will the inner triangle of a circle contains the center?

Procedure: circle (N) # N is the number of simulation

Initial P=0

for i=1.2.... N. do

X = (0.0.0) # initial X.Y

Y = (0.0.0)

for j=1.2.3. do

·X; ~ U (-1.1)

 $Y_j \leftarrow (1-X_j^2)^{\frac{1}{2}} \times (2. \text{Bernolli}(\frac{1}{2})^{-1})$

 $0 = (\chi_1 - \chi_2)^2 + (y_1 - y_2)^2$

 $b = (\chi_2 - \chi_3)^{\nu} + (y_2 - y_3)^{\nu}$

 $C = (X_1 - X_3)^2 + (Y_1 - Y_3)^2$

if a+b-c>0 and a+c-b>0 and b+c-a>0p=p+1

return PN