Algorithm 1 simPi()

Input: $TimesOfCalcul$

Output: Pi

  1: $CountIn \leftarrow 0$

  2: $CountOut \leftarrow 0$

  3: **for** $i \rightarrow TimesOfCalcul$ **do**

  4:      $x \leftarrow random$

  5:      $y \leftarrow random$

  6:      $CountOut + +$

  7:      **if** $x^2 + y^2 \leq 1$ **then**

  8:         $CountIn + +$

  9:      **end if**

10:      $Pi \leftarrow (4 * CountIn)/CountOut$

11: **end for**