
Algorithm 4 *MonteCarlo()*

Input: *TimesOfCalcul*
Output: *Pi*

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1: valAvgPi  $\leftarrow$  0
2: sumPi  $\leftarrow$  0
3: count  $\leftarrow$  0
4: while count  $\leq$  TimesOfCalcul do
5:   valAvgPi  $\leftarrow$  avgPi(TimesOfCalcul)
6:   if ( then valAvgPi  $\leftarrow$  RealPi  $\pm$  calculRange(TimesOfCalcul) )
7:     sumPi  $\leftarrow$  sumPi + valAvgPi
8:     count ++
9:   end if
10: end while
11: Pi  $\leftarrow$  sumPi/count

```
