Algorithm 3 calculRange()

Input: $TimesOfCalcul$

Output: $ConfidenceInterval$

1: $avgPi \leftarrow 0$

2: $sumPi \leftarrow 0$

3: $T \Leftarrow TimesOfCalcul$

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

5:     $avgPi \leftarrow simPi()$

6:     $sumPi \leftarrow sumPi + avgPi$

7: **end for**

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

9:     $S \leftarrow S + (avgPi - (sumPi/TimeOfCalcul))^2$

10: **end for**

11: $S \leftarrow S/(TimesOfCalcul - 1)$

12: $S \leftarrow \sqrt{S}$

13: $ConfidenceInterval \leftarrow S * T$