
$B_{new} = \text{EXPAND}_{\text{RA}}(B, \Gamma)$	1
$B_{new} = B$	2
Foreach $b \in B$	3
$S := \text{number of states}$	4
For $i = 0 : S$	5
$b_{tmp}[i] = \text{rand}_{\text{uniform}}(0,1)$	6
End	7
Sort b_{tmp} in ascending order	8
For $i = 1 : S - 1$	9
$b_{new}[i] = b_{tmp}[i + 1] - b_{tmp}[i]$	10
End	11
$B_{new} = B_{new} \cup b_{new}$	12
End	13
Return B_{new}	14
