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**Algorithm 1** algorithm name

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**Input:** input parameters**Output:** output parameters

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1: function ALGORITHM NAME(input parameters)
2:    $V \leftarrow 0$ 
3:   for  $i \leftarrow 1$  to  $\text{len}(\text{GramArray})$  do
4:      $\text{element} \leftarrow \text{GramArray}[i]$ 
5:     if  $\text{GramInfo.exist}(\text{element})$  then
6:        $\text{GramInfo}[\text{element}].\text{count}++$ 
7:     else
8:        $\text{GramInfo.Add}(\langle \text{element}, i, 1 \rangle)$ 
9:     end if
10:  end for
11:  while  $\text{GramInfo.isNotEmpty}()$  do
12:     $\text{cell} \leftarrow \text{GramInfo.popElement}()$ 
13:     $\text{index} \leftarrow \text{GramMap}(\text{cell.gram})$ 
14:     $V[\text{index}] \leftarrow \langle \text{cell.pos}, \text{cell.count} \rangle$ 
15:  end while
16:  return  $V$ 
17: end function
```

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