

Generation of Cayley graphs

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List of Algorithms

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Algorithm 1 Group elements generation

Require: $generation_set[], n$

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1:  $stack[] \leftarrow generation\_set[]$ 
2:  $stack\_element \leftarrow stack[0]$ 
3: while  $stack[]$  not empty do
4:   for all  $generating\_element \leftarrow generation\_set[]$  do
5:      $multiplication\_result \leftarrow (stack\_element * generating\_element) \bmod n$ 
6:      $multiplication\_results[stack\_element]$  append  $multiplication\_result$ 
7:   end for
8:   shift to the left  $stack[]$ 
9:    $stack\_element \leftarrow stack[0]$ 
10: end while
11: return  $multiplication\_results$ 
```
