



# Cycle C. 1 1 \_ Permute

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|-----------|
| Continued |
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```

q=: C. p=: 1 2 3 0 4 [ a=: 'abcde'
q ; (q C. a) ; p ; (p C. a) ; (p { a)
+-----+-----+-----+-----+
|+-----++|bcdae|1 2 3 0 4|bcdae|bcdae|
|3 0 1 2|4|      |      |      |      |
+-----++|      |      |      |      |
+-----+-----+-----+-----+
a ; (<0 _1) C. a
+-----+
|abcde|ebcda|
+-----+

]p=: 22 ?. 22          A random permutation of order 22
19 5 10 8 14 16 20 4 0 18 15 1 9 12 3 2 11 7 17 21 13 6

C. p          Its cycles
+-----+-----+-----+-----+
|15 2 10|16 11 1 5|21 6 20 13 12 9 18 17 7 4 14 3 8 0 19|
+-----+-----+-----+-----+

*./ #&> C. p          LCM of the cycle lengths
60

# ~. p&{^(i.200) i.#p
60

```