

```

[0] K MINEOPAL EO
[1] A make automata for minimum number of palindromes
[2] A+K QUEUE2 EO
[3] CREATE D+'pal',(*K),'-e',(*EO[1]),'o',(*EO[2]),'.txt'
[4] WRITE A
[5] CLOSE
[6] C+SH grailpath,'fmmmin ~shallit/Desktop/',D,' > ~shallit/Desktop/min',D
[7] G+aeSH grailpath,'fmstats ~shallit/Desktop/',D
[8] E+aeSH grailpath,'fmstats ~shallit/Desktop/min',D
[9] 'writing file ',D,'; ',(*G[3]),' states'
[10] 'writing file min',D,'; ',(*E[3]),' states'
[11] ''

vMINLENPAL[[]]v
[0] K MINLENPAL N;A
[1] A make automata for no pal of length N over alph of size K
[2] A+K QUEUE3 N
[3] CREATE D+'lpal',(*K),'-',(*N),'.txt'
[4] WRITE A
[5] CLOSE
[6] C+SH grailpath,'fmmmin ~shallit/Desktop/',D,' > ~shallit/Desktop/min',D
[7] G+aeSH grailpath,'fmstats ~shallit/Desktop/',D
[8] E+aeSH grailpath,'fmstats ~shallit/Desktop/min',D
[9] 'writing file ',D,'; ',(*G[3]),' states'
[10] 'writing file minl',D,'; ',(*E[3]),' states'
[11] ''

vMINNUPAL[[]]v
[0] K MINNUPAL N
[1] A make automata for minimum number of palindromes
[2] A+K QUEUE N
[3] CREATE D+'pal',(*K),'-',(*N),'.txt'
[4] WRITE A
[5] CLOSE
[6] C+SH grailpath,'fmmmin ~shallit/Desktop/',D,' > ~shallit/Desktop/min',D
[7] G+aeSH grailpath,'fmstats ~shallit/Desktop/',D
[8] E+aeSH grailpath,'fmstats ~shallit/Desktop/min',D
[9] 'writing file ',D,'; ',(*G[3]),' states'
[10] 'writing file min',D,'; ',(*E[3]),' states'
[11] ''

vNUMEOPAL[[]]v
[0] K NUMEOPAL EO
[1] A make automata for minimum number of palindromes
[2] A+K QUEUE4 EO
[3] CREATE D+'palnum',(*K),'-e',(*EO[1]),'o',(*EO[2]),'.txt'
[4] WRITE A
[5] CLOSE
[6] C+SH grailpath,'fmmmin ~shallit/Desktop/',D,' > ~shallit/Desktop/min',D
[7] G+aeSH grailpath,'fmstats ~shallit/Desktop/',D
[8] E+aeSH grailpath,'fmstats ~shallit/Desktop/min',D
[9] 'writing file ',D,'; ',(*G[3]),' states'
[10] 'writing file min',D,'; ',(*E[3]),' states'
[11] ''

```