USEFUL COMMANDS:

- isprime(p); tests whether p is prime
- ifactor(n); factors the integer n
- ithprime(n); finds the i-th prime
- nextprime(n); finds the smallest prime > n
- prevprime(n); finds the largest prime < n
- gcd(a,b); finds the gcd of a and b
- power(a,e) mod n; raises a to the power e and reduces mod n (works with very large numbers)
- power(a, -1) mod n; finds the inverse of a mod n

- To enter a text, eg “Fourscore and seven years ago” and call it “ptext”:


  (This defines the expression “ptext” as an ordered list.)

- To find the number of letters in the text:

  nops(ptext);

- To get the i-th letter in ptext:

  ptext[i];

- To change letters in “text” to numbers with output “ntext”:

  ntext := subs(A=1, B=2, C=3, D=4, E=5, F=6, G=7, H=8, I=9, J=10, K=11, L=12, M=13, N=14, O=15, P=16, Q=17, R=18, S=19, T=20, U=21, V=22, W=23, X=24, Y=25, Z=26, text);

- To change numbers in “ntext” to letters with output “text1”: