```
Z_2:
2:
 x^2 + x + 1
3:
 x^3 + x^2 + 1
                x^3 + x + 1
4:
x^4 + x^3 + 1
                x^4 + x + 1
                             x^4 + x^3 + x^2 + x + 1
Z_3:
2:
   x^2 + 1
               2x^2 + x + 1
                              2x^2 + 2x + 1 2x^2 + 2
 x^2 + x + 2 x^2 + 2x + 2
3:
    x^3 + 2x^2 + 1
                       2x^3 + 2x^2 + 1
                                            2x^3 + x + 1
                                                                2x^3 + x^2 + x + 1
  x^3 + 2x^2 + x + 1
                        x^3 + 2x + 1
                                         x^3 + x^2 + 2x + 1
                                                               2x^3 + 2x^2 + 2x + 1
    x^3 + x^2 + 2
                       2x^3 + x^2 + 2
                                            2x^3 + x + 2
                                                                x^3 + x^2 + x + 2
 2x^3 + 2x^2 + x + 2
                        x^3 + 2x + 2
                                         2x^3 + x^2 + 2x + 2
                                                               x^3 + 2x^2 + 2x + 2
       2x^4 + x^3 + 1
                                  2x^4 + 2x^3 + 1
                                                               2x^4 + x^2 + 1
                                                                                          x^4 + x^3 + x^2 + 1
    x^4 + 2x^3 + x^2 + 1
                                  2x^4 + 2x^2 + 1
                                                               2x^4 + x + 1
                                                                                         x^4 + 2x^3 + x + 1
                              x^4 + x^3 + x^2 + x + 1
                                                         2x^4 + 2x^3 + x^2 + x + 1
                                                                                      2x^4 + 2x^3 + 2x^2 + x + 1
     x^4 + x^2 + x + 1
                                                                                      2x^4 + x^3 + x^2 + 2x + 1
      2x^4 + 2x + 1
                                x^4 + x^3 + 2x + 1
                                                             x^4 + x^2 + 2x + 1
                             2x^4 + x^3 + 2x^2 + 2x + 1
 x^4 + 2x^3 + x^2 + 2x + 1
                                                               x^4 + x^3 + 2
                                                                                            x^4 + 2x^3 + 2
       x^4 + x^2 + 2
                                   x^4 + 2x^2 + 2
                                                            2x^4 + x^3 + 2x^2 + 2
                                                                                        2x^4 + 2x^3 + 2x^2 + 2
                                2x^4 + 2x^3 + x + 2
                                                          x^4 + 2x^3 + x^2 + x + 2
       x^4 + x + 2
                                                                                         2x^4 + 2x^2 + x + 2
 2x^4 + x^3 + 2x^2 + x + 2
                             x^4 + 2x^3 + 2x^2 + x + 2
                                                               x^4 + 2x + 2
                                                                                         2x^4 + x^3 + 2x + 2
 x^4 + x^3 + x^2 + 2x + 2
                               2x^4 + 2x^2 + 2x + 2
                                                         x^4 + x^3 + 2x^2 + 2x + 2
                                                                                     2x^4 + 2x^3 + 2x^2 + 2x + 2
Z_5:
    2x^2 + 1
                    3x^2 + 1
                                   x^2 + x + 1
                                                   2x^2 + x + 1
 3x^2 + 2x + 1
                 4x^2 + 2x + 1
                                  3x^2 + 3x + 1
                                                   4x^2 + 3x + 1
                 2x^2 + 4x + 1
                                     x^2 + 2
                                                     4x^2 + 2
 x^2 + 4x + 1
  x^2 + x + 2
                  3x^2 + x + 2
                                  2x^2 + 2x + 2
                                                   4x^2 + 2x + 2
 2x^2 + 3x + 2
                 4x^2 + 3x + 2
                                  x^2 + 4x + 2
                                                   3x^2 + 4x + 2
                    4x^2 + 3
                                   2x^2 + x + 3
    x^{2} + 3
                                                   4x^2 + x + 3
 x^2 + 2x + 3
                  3x^2 + 2x + 3
                                   x^2 + 3x + 3
                                                   3x^2 + 3x + 3
 2x^2 + 4x + 3
                 4x^2 + 4x + 3
                                    2x^2 + 4
                                                    3x^2 + 4
 3x^2 + x + 4
                  4x^2 + x + 4
                                  x^2 + 2x + 4
                                                  2x^2 + 2x + 4
                 2x^2 + 3x + 4
                                  3x^2 + 4x + 4
                                                  4x^2 + 4x + 4
 x^2 + 3x + 4
```

$x^3 + x^2 + 1$	$4x^3 + x^2 + 1$	$x^3 + 2x^2 + 1$	$4x^3 + 2x^2 + 1$
$2x^3 + 3x^2 + 1$	$3x^3 + 3x^2 + 1$	$2x^3 + 4x^2 + 1$	$3x^3 + 4x^2 + 1$
$x^3 + x + 1$	$2x^3 + x + 1$	$3x^3 + x^2 + x + 1$	$4x^3 + x^2 + x + 1$
$x^3 + 3x^2 + x + 1$	$4x^3 + 3x^2 + x + 1$	$x^3 + 4x^2 + x + 1$	$3x^3 + 4x^2 + x + 1$
$x^3 + 2x + 1$	$3x^3 + 2x + 1$	$3x^3 + x^2 + 2x + 1$	$4x^3 + x^2 + 2x + 1$
$2x^3 + 2x^2 + 2x + 1$	$3x^3 + 2x^2 + 2x + 1$	$2x^3 + 4x^2 + 2x + 1$	$4x^3 + 4x^2 + 2x + 1$
$2x^3 + 3x + 1$	$4x^3 + 3x + 1$	$x^3 + x^2 + 3x + 1$	$2x^3 + x^2 + 3x + 1$
$2x^3 + 2x^2 + 3x + 1$	$3x^3 + 2x^2 + 3x + 1$	$x^3 + 4x^2 + 3x + 1$	$3x^3 + 4x^2 + 3x + 1$
$3x^3 + 4x + 1$	$4x^3 + 4x + 1$	$x^3 + x^2 + 4x + 1$	$2x^3 + x^2 + 4x + 1$
$x^3 + 3x^2 + 4x + 1$	$4x^3 + 3x^2 + 4x + 1$	$2x^3 + 4x^2 + 4x + 1$	$4x^3 + 4x^2 + 4x + 1$
$x^3 + x^2 + 2$	$4x^3 + x^2 + 2$	$2x^3 + 2x^2 + 2$	$3x^3 + 2x^2 + 2$
$x^3 + 3x^2 + 2$	$4x^3 + 3x^2 + 2$	$2x^3 + 4x^2 + 2$	$3x^3 + 4x^2 + 2$
$3x^3 + x + 2$	$4x^3 + x + 2$	$2x^3 + 2x^2 + x + 2$	$4x^3 + 2x^2 + x + 2$
$x^3 + 3x^2 + x + 2$	$2x^3 + 3x^2 + x + 2$	$x^3 + 4x^2 + x + 2$	$4x^3 + 4x^2 + x + 2$
$2x^3 + 2x + 2$	$4x^3 + 2x + 2$	$2x^3 + x^2 + 2x + 2$	$3x^3 + x^2 + 2x + 2$
$x^3 + 2x^2 + 2x + 2$ $x^3 + 3x + 2$	$3x^3 + 2x^2 + 2x + 2$ $3x^3 + 3x + 2$	$x^3 + 3x^2 + 2x + 2$ $2x^3 + x^2 + 3x + 2$	$2x^3 + 3x^2 + 2x + 2$ $3x^3 + x^2 + 3x + 2$
$x^{3} + 3x + 2$ $2x^{3} + 2x^{2} + 3x + 2$	$3x^{3} + 3x + 2$ $4x^{3} + 2x^{2} + 3x + 2$	$2x^{3} + x^{2} + 3x + 2$ $3x^{3} + 3x^{2} + 3x + 2$	$3x^{3} + x^{2} + 3x + 2$ $4x^{3} + 3x^{2} + 3x + 2$
$2x^{3} + 2x^{2} + 3x + 2$ $x^{3} + 4x + 2$	$4x^3 + 2x^2 + 3x + 2$ $2x^3 + 4x + 2$	$3x^3 + 3x^2 + 3x + 2$ $x^3 + 2x^2 + 4x + 2$	$4x^{3} + 3x^{2} + 3x + 2$ $3x^{3} + 2x^{2} + 4x + 2$
$x^{4} + 4x + 2$ $3x^{3} + 3x^{2} + 4x + 2$	$2x^{3} + 4x + 2$ $4x^{3} + 3x^{2} + 4x + 2$	$x^{4} + 2x^{2} + 4x + 2$ $x^{3} + 4x^{2} + 4x + 2$	$3x^{4} + 2x^{2} + 4x + 2$ $4x^{3} + 4x^{2} + 4x + 2$
$3x^{3} + 3x^{2} + 4x + 2$ $2x^{3} + x^{2} + 3$	$4x^{2} + 3x^{2} + 4x + 2$ $3x^{3} + x^{2} + 3$	$x^{4} + 4x^{2} + 4x + 2$ $x^{3} + 2x^{2} + 3$	$4x^{3} + 4x^{2} + 4x + 2$ $4x^{3} + 2x^{2} + 3$
$2x^{2} + x^{2} + 3$ $2x^{3} + 3x^{2} + 3$	$3x^{2} + x^{2} + 3$ $3x^{3} + 3x^{2} + 3$	$x^{2} + 2x^{2} + 3$ $x^{3} + 4x^{2} + 3$	4x + 2x + 3 $4x^3 + 4x^2 + 3$
$3x^{3} + x + 3$	3x + 3x + 3 $4x^3 + x + 3$	$x^{2} + 4x^{2} + 3$ $x^{3} + x^{2} + x + 3$	4x + 4x + 3 $4x^3 + x^2 + x + 3$
$x^3 + 2x^2 + x + 3$	$2x^3 + 2x^2 + x + 3$	$2x^3 + 3x^2 + x + 3$	$4x^{2} + x^{2} + x + 3$ $4x^{3} + 3x^{2} + x + 3$
$2x^3 + 2x + 3$	$4x^3 + 2x + 3$	$x^3 + 2x^2 + 2x + 3$	$2x^3 + 2x^2 + 2x + 3$
$x^3 + 3x^2 + 2x + 3$	$3x^3 + 3x^2 + 2x + 3$	$2x^3 + 4x^2 + 2x + 3$	$3x^3 + 4x^2 + 2x + 3$
$x^3 + 3x + 3$	$3x^3 + 3x + 3$	$3x^3 + 2x^2 + 3x + 3$	$4x^3 + 2x^2 + 3x + 3$
$2x^3 + 3x^2 + 3x + 3$	$4x^3 + 3x^2 + 3x + 3$	$2x^3 + 4x^2 + 3x + 3$	$3x^3 + 4x^2 + 3x + 3$
$x^3 + 4x + 3$	$2x^3 + 4x + 3$	$x^3 + x^2 + 4x + 3$	$4x^3 + x^2 + 4x + 3$
$3x^3 + 2x^2 + 4x + 3$	$4x^3 + 2x^2 + 4x + 3$	$x^3 + 3x^2 + 4x + 3$	$3x^3 + 3x^2 + 4x + 3$
$2x^3 + x^2 + 4$	$3x^3 + x^2 + 4$	$2x^3 + 2x^2 + 4$	$3x^3 + 2x^2 + 4$
$x^3 + 3x^2 + 4$	$4x^3 + 3x^2 + 4$	$x^3 + 4x^2 + 4$	$4x^3 + 4x^2 + 4$
$x^3 + x + 4$	$2x^3 + x + 4$	$x^3 + x^2 + x + 4$	$3x^3 + x^2 + x + 4$
$x^3 + 2x^2 + x + 4$	$4x^3 + 2x^2 + x + 4$	$3x^3 + 4x^2 + x + 4$	$4x^3 + 4x^2 + x + 4$
$x^3 + 2x + 4$	$3x^3 + 2x + 4$	$2x^3 + x^2 + 2x + 4$	$4x^3 + x^2 + 2x + 4$
$2x^3 + 3x^2 + 2x + 4$	$3x^3 + 3x^2 + 2x + 4$	$3x^3 + 4x^2 + 2x + 4$	$4x^3 + 4x^2 + 2x + 4$
$2x^3 + 3x + 4$	$4x^3 + 3x + 4$	$x^3 + x^2 + 3x + 4$	$3x^3 + x^2 + 3x + 4$
$2x^3 + 3x^2 + 3x + 4$	$3x^3 + 3x^2 + 3x + 4$	$x^3 + 4x^2 + 3x + 4$	$2x^3 + 4x^2 + 3x + 4$
$3x^3 + 4x + 4$	$4x^3 + 4x + 4$	$2x^3 + x^2 + 4x + 4$	$4x^3 + x^2 + 4x + 4$
$x^3 + 2x^2 + 4x + 4$	$4x^3 + 2x^2 + 4x + 4$	$x^3 + 4x^2 + 4x + 4$	$2x^3 + 4x^2 + 4x + 4$
[Finished in 2.8s]			