

```

1( 2, 7) = ( 2, 7)
2( 2, 7) = ( 5, 2)
3( 2, 7) = ( 8, 3)
4( 2, 7) = (10, 2)
5( 2, 7) = ( 3, 6)
6( 2, 7) = ( 7, 9)
7( 2, 7) = ( 7, 2)
8( 2, 7) = ( 3, 5)
9( 2, 7) = (10, 9)
10( 2, 7) = ( 8, 8)
11( 2, 7) = ( 5, 9)
12( 2, 7) = ( 2, 4)
|E(F_11)| = 13
|E(F_11)| = -1
Rabin_Miller(127) = 1
Rabin_Miller(499) = 1
|E(F_5)| = 9
number to be tested or 0 to quit:
50021
maximum bound for factor base:
500
Prime sieving time = 3.185000
N[0] = 50021
a = 43643
b = 30711
m = 49678
q = 421
P = (25444, 48259)
P1 = (0, 1)
P2 = (40203, 15187)
number is proven prime
runtime in seconds = 4.563000
number to be tested or 0 to quit:
65537
maximum bound for factor base:
500
Prime sieving time = 3.310000
N[0] = 65537
a = 62986
b = 44789
m = 65488
q = 4093
P = (20038, 51163)
P1 = (0, 1)
P2 = (18479, 52527)
N[1] = 4093
a = 3796

```

```
b = 1839
m = 4072
q = 509
P = (1305, 1291)
P1 = (0, 1)
P2 = (3007, 409)
N[2] = 509
a = 302
b = 109
m = 524
q = 131
P = (327, 238)
P1 = (0, 1)
P2 = (406, 120)
number is proven prime
runtime in seconds = 6.918000
number to be tested or 0 to quit:
75011
maximum bound for factor base:
500
Prime sieving time = 3.205000
N[0] = 75011
a = 3625
b = 65804
m = 74662
q = 5333
P = (23457, 51908)
P1 = (0, 1)
P2 = (71436, 7613)
N[1] = 5333
a = 541
b = 2033
m = 5272
q = 659
P = (2957, 533)
P1 = (0, 1)
P2 = (748, 707)
N[2] = 659
a = 212
b = 580
m = 652
q = 163
P = (604, 545)
P1 = (0, 1)
P2 = (148, 88)
number is proven prime
runtime in seconds = 14.155000
```

```
number to be tested or 0 to quit:
101149
maximum bound for factor base:
1000
Prime sieving time = 3.310000
N[0] = 101149
a = 30018
b = 80834
m = 100652
q = 25163
P = (68359, 87365)
P1 = (0, 1)
P2 = (46352, 43377)
N[1] = 25163
a = 833
b = 18904
m = 24874
q = 12437
P = (10202, 3243)
P1 = (0, 1)
P2 = (24999, 13619)
N[2] = 12437
a = 5544
b = 8960
m = 12326
q = 6163
P = (678, 7109)
P1 = (0, 1)
P2 = (11870, 5449)
N[3] = 6163
a = 2933
b = 3797
m = 6316
q = 1579
P = (3854, 330)
P1 = (0, 1)
P2 = (5843, 4839)
N[4] = 1579
a = 476
b = 38
m = 1576
q = 197
P = (1325, 540)
P1 = (0, 1)
P2 = (1198, 23)
number is proven prime
runtime in seconds = 7.729000
```

```
number to be tested or 0 to quit:
102233
maximum bound for factor base:
1000
Prime sieving time = 3.280000
N[0] = 102233
a = 56256
b = 77478
m = 102532
q = 25633
P = (81843, 32454)
P1 = (0, 1)
P2 = (61417, 10371)
N[1] = 25633
a = 23292
b = 15672
m = 25522
q = 1823
P = (9048, 18155)
P1 = (0, 1)
P2 = (18091, 22123)
N[2] = 1823
a = 1454
b = 246
m = 1796
q = 449
P = (447, 839)
P1 = (0, 1)
P2 = (1804, 428)
number is proven prime
runtime in seconds = 5.993000
number to be tested or 0 to quit:
1000003
maximum bound for factor base:
1000
Prime sieving time = 3.298000
N[0] = 1000003
a = 904009
b = 504666
m = 1000096
q = 31253
P = (185899, 415928)
P1 = (0, 1)
P2 = (87292, 196096)
N[1] = 31253
a = 14888
b = 3470
```

```
m = 31448
q = 3931
P = (4371, 29732)
P1 = (0, 1)
P2 = (1765, 27340)
N[2] = 3931
a = 3499
b = 2121
m = 4024
q = 503
P = (2986, 532)
P1 = (0, 1)
P2 = (1393, 1401)
number is proven prime
runtime in seconds = 21.843000
number to be tested or 0 to quit:
1001311
maximum bound for factor base:
1000
Prime sieving time = 3.229000
N[0] = 1001311
a = 927108
b = 561182
m = 1001398
q = 500699
P = (737997, 290627)
P1 = (0, 1)
P2 = (154229, 647765)
N[1] = 500699
a = 474145
b = 72110
m = 500008
q = 62501
P = (335722, 63245)
P1 = (0, 1)
P2 = (428094, 206872)
N[2] = 62501
a = 26437
b = 21053
m = 62908
q = 15727
P = (51974, 34685)
P1 = (0, 1)
P2 = (7333, 49214)
N[3] = 15727
a = 11977
b = 1604
```

```
m = 15712
q = 491
P = (10299, 2192)
P1 = (0, 1)
P2 = (5522, 6294)
number is proven prime
runtime in seconds = 6.061000
number to be tested or 0 to quit:
```