```
1: #!/usr/bin/perl
 2: # $Id: egypt-div.perl,v 1.1 2012-02-07 19:44:53-08 - - $
 3:
 4: $0 = "s|.*/||;
 5: print STDERR "Usage: $0 numerator denominator\n" and exit
 6: unless @ARGV == 2 and ($numer, $denom) = @ARGV
7:
           and numer = m/^d+ and denom = m/^d+;
8:
9: print "$0: verification: $numer / $denom = ", int $numer / $denom,
          " remainder ", $numer % $denom, "\n\n";
11:
12: $top = 1;
13: $right = $denom;
14:
15: while ($right <= $numer) {</pre>
      push @stack, [$top, $right];
17:
       $top += $top;
18:
       $right += $right;
19: }
20:
21: (\$remdr, \$quot) = (\$numer, 0);
22: $fmt = "%12s %12s %12s %12s\n";
23: while (@stack) {
       printf $fmt, "", "", $remdr, $quot;
24:
       ($top, $right) = @{pop @stack};
25:
       if ($right <= $remdr) {</pre>
26:
27:
          $remdr -= $right;
28:
          $quot += $top;
          printf $fmt, $top, $right, "- " . $right, "+ " . $top;
29:
30:
       }else {
          printf $fmt, $top, $right, "- 0", "+ 0";
31:
32:
       printf $fmt, "", "", "= " . $remdr, "= " . $quot;
33:
34:
       printf "\n";
35: }
36:
37: printf $fmt, "", "", "remainder", "quotient";
```

1 ·	egypt-div perl:	verification:	876543 / 123	= 7126 remainder 45	,
2:	cgypt div.pcii.	verricaeron.	070343 / 123	- /120 Ichiailiaci 40	,
3:			876543	0	
4:	4096	503808	- 503808		
5:			= 372735	= 4096	
6:					
7:			372735	4096	
8:	2048	251904	- 251904	+ 2048	
9:			= 120831	= 6144	
10:				0211	
11:			120831	6144	
12:	1024	125952	- 0	+ 0	
13:	1011	120702	= 120831	= 6144	
14:			120031	0111	
15:			120831	6144	
16:	512	62976	- 62976	+ 512	
17:	J12	02570	= 57855	= 6656	
18:			- 37033	_ 0000	
19:			57855	6656	
20:	256	31488	- 31488	+ 256	
20:	250	21400	= 26367	= 6912	
22:			- 20307	- 0312	
23:			26367	6912	
24:	128	15744	- 15744	+ 128	
25:	120	13/44	= 15744 = 10623	= 7040	
26:			= 10623	= 7040	
27:			10622	7040	
28:	6.4	7070	10623		
	64	7872	- 7872 - 2751	+ 64	
29:			= 2751	= 7104	
30:			0751	7104	
31:	20	2026	2751	7104	
32:	32	3936	- 0	+ 0	
33:			= 2751	= 7104	
34:			0751	7104	
35:	1.0	1000	2751	7104	
36:	16	1968	- 1968	+ 16	
37:			= 783	= 7120	
38:			500	7100	
39:	•	004	783	7120	
40:	8	984	- 0 - 703	+ 0	
41:			= 783	= 7120	
42:			700	7100	
43:		400	783	7120	
44:	4	492	- 492	+ 4	
45:			= 291	= 7124	
46:			201	F104	
47:	_		291	7124	
48:	2	246	- 246	+ 2	
49:			= 45	= 7126	
50:			- -	-	
51:	_		45	7126	
52:	1	123	- 0	+ 0	
53:			= 45	= 7126	
54:					
55:			remainder	quotient	