```
1: #!/usr/bin/perl
 2: # $Id: egyptian-div.perl,v 1.1 2019-04-03 16:17:52-07 - - $
 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 = $denom;
15: while ($right <= $numer) {</pre>
      push @stack, [$top, $right];
17:
       $top += $top;
       $right += $right;
18:
19: }
20:
21: (\$remdr, \$quot) = (\$numer, 0);
22: $fmt = "%12s %12s %12s %12s\n";
23: while (@stack) {
       printf $fmt, "", "", $remdr, $quot;
24:
       ($top, $right) = @{pop @stack};
25:
26:
       if ($right <= $remdr) {</pre>
27:
          $remdr -= $right;
28:
          $quot += $top;
          printf $fmt, $top, $right, "- " . $right, "+ " . $top;
29:
       }else {
30:
31:
          printf $fmt, $top, $right, "- 0", "+ 0";
32:
      printf $fmt, "", "", "= " . $remdr, "= " . $quot;
33:
       printf "\n";
34:
35: }
36:
37: printf $fmt, "", "", "remainder", "quotient";
39:
    __DATA
40: //TEST// egyptian-division.perl 76543 123 >egyptian-division.out
41: //TEST// mkpspdf egyptian-division.ps \
42: //TEST//
                    egyptian-division.perl egyptian-division.out
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		egyptian-div.perl:	verification	: 76543 /	123 = 622 remainder	37
	2:					
	3:			76543	0	
	4:	512	62976	- 62976		
	5:			= 13567	= 512	
	6:					
	7:			13567	512	
	8:	256	31488	- 0	+ 0	
	9:			= 13567	= 512	
	10:					
	11:			13567	512	
	12:	128	15744	- 0	+ 0	
	13:			= 13567	= 512	
	14:					
	15:			13567	512	
	16:	64	7872	- 7872	+ 64	
	17:			= 5695	= 576	
	18:					
	19:			5695	576	
	20:	32	3936	- 3936		
	21:			= 1759	= 608	
	22:					
	23:			1759	608	
	24:	16	1968	- 0	+ 0	
	25:			= 1759	= 608	
	26:					
	27:			1759	608	
	28:	8	984	- 984	+ 8	
	29:			= 775	= 616	
	30:					
	31:			775	616	
	32:	4	492	- 492	+ 4	
	33:			= 283	= 620	
	34:					
	35:			283	620	
	36:	2	246	- 246	+ 2	
	37:			= 37	= 622	
	38:					
	39:			37	622	
	40:	1	123	- 0	+ 0	
	41:			= 37	= 622	
	42:					
	43:			remainder	quotient	