```
1: #!/usr/bin/perl
 2: # $Id: egypt-mul.perl.pdf, v 1.1 2015-10-09 18:22:53-07 - - $
 3:
 4: $0 = "s|.*/||;
 5: print STDERR "Usage: $0 multiplier multiplicand\n" and exit
 6: unless @ARGV == 2 and ($left, $right) = @ARGV
7:
           and f = m/^d+ \  \   and f = m/^d+ \  \  
8:
9: print "$0: verification: $left * $right = ", $left * $right, "\n\n";
10:
11: $top = 1;
12: while ($top <= $left) {</pre>
13:
       push @stack, [$top, $right];
14:
       top += top;
15:
       $right += $right;
16: }
17:
18: $result = 0;
19: $fmt = "%12s %12s %12s %12s\n";
20: while (@stack) {
       printf $fmt, "", "", $left, $result;
21:
22:
       ($top, $right) = @{pop @stack};
23:
       if ($top <= $left) {</pre>
          $left -= $top;
24:
          $result += $right;
25:
          printf $fmt, $top, $right, "- " . $top, "+ " . $right;
26:
27:
       }else {
          printf $fmt, $top, $right, "- 0", "+ 0";
28:
29:
      printf $fmt, "", "", "= " . $left, "= " . $result;
30:
31:
      printf "\n";
32: }
33:
34: printf $fmt, "", "", "zero", "product";
35:
```

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1:	egypt-mul.perl:	verification:	745 * 1033 =	769585	
2:					
3:			745	0	
4:	512	528896	- 512	+ 528896	
5:			= 233	= 528896	
6:					
7:			233	528896	
8:	256	264448	- 0	+ 0	
9:			= 233	= 528896	
10:					
11:			233	528896	
12:	128	132224	- 128	+ 132224	
13:			= 105	= 661120	
14:					
15:			105	661120	
16:	64	66112	- 64	+ 66112	
17:			= 41	= 727232	
18:					
19:			41	727232	
20:	32	33056	- 32	+ 33056	
21:			= 9	= 760288	
22:					
23:			9	760288	
24:	16	16528	- 0	+ 0	
25:			= 9	= 760288	
26:					
27:			9	760288	
28:	8	8264	- 8	+ 8264	
29:			= 1	= 768552	
30:					
31:			1	768552	
32:	4	4132	- 0	+ 0	
33:			= 1	= 768552	
34:					
35:			1	768552	
36:	2	2066	- 0	+ 0	
37:			= 1	= 768552	
38:			_		
39:			1	768552	
40:	1	1033	- 1	+ 1033	
41:			= 0	= 769585	
42:				. .	
43:			zero	product	