For Exercise 4.10.3, name the function `pow`. For Exercise 4.10.4, name the function `mul`.

4.10.6 Let the base-b *floor logarithm* (flog) of x be the greatest integer less than $\log_b x$. Define the base-b *remainder logarithm* (rlog) of x to be the difference between x and b raised to the floor log of x. For examples,

			floor log	**remainder log**
17	$=$	$16+1$		
	$=$	2^4+1	$\text{flog}_2 17 = 4$	$\text{rlog}_2 17 = 1$
30	$=$	$27+3$		
	$=$	3^3+3	$\text{flog}_3 30 = 3$	$\text{rlog}_3 30 = 3$
68	$=$	$64+4$		
	$=$	4^3+4	$\text{flog}_4 68 = 3$	$\text{rlog}_4 68 = 4$

Lemma 1 *For all $a, b \in \mathbb{N}$, there exists unique $n, r \in \mathbb{W}$ such that $a = b^n + r$ and $0 \leq r < (b-1) \cdot b^n$.*

Lemma 2 *For all $b, n, r \in \mathbb{W}$, $b^n + r = b^{n+1} + r - (b-1) \cdot b^n$.*

Using these lemmas, write an ML function `frlog` that takes two integers (a and b) and returns $\text{flog}_b a$ and $\text{rlog}_b a$ as a tuple.