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--- Day 4: The Ideal Stocking Stuffer ---

Santa needs help **mining** some AdventCoins (very similar to **bitcoins**) to use as gifts for all the economically forward-thinking little girls and boys.

To do this, he needs to find **MD5** hashes which, in **hexadecimal**, start with at least five zeroes. The input to the MD5 hash is some secret key (your puzzle input, given below) followed by a number in decimal. To mine AdventCoins, you must find Santa the lowest positive number (no leading zeroes: **1**, **2**, **3**, ...) that produces such a hash.

For example:

- If your secret key is **abcdef**, the answer is **609043**, because the MD5 hash of **abcdef609043** starts with five zeroes (**000001dbbfa...**), and it is the lowest such number to do so.
- If your secret key is **pqrstuv**, the lowest number it combines with to make an MD5 hash starting with five zeroes is **1048970**; that is, the MD5 hash of **pqrstuv1048970** looks like **000006136ef...**.

Your puzzle answer was **346386**.

--- Part Two ---

Now find one that starts with six zeroes.

Your puzzle answer was **9958218**.

Both parts of this puzzle are complete! They provide two gold stars: \*\*

At this point, you should **return to your advent calendar** and try another puzzle.

Your puzzle input was **iwrupvqb**.

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