

--- 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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