

CLEVER ALGORITHM TO
FIND WHETHER OR NOT
2 WORDS ARE ANAGRAMS

MAP EACH OF THE 26 ENGLISH CHARACTERS
A, B, C, D... TO A PRIME NUMBER.

THEN MULTIPLY THE CHARACTERS OF EACH
WORD. SINCE EVERY INTEGER IS A PRIME
OR A UNIQUE PRODUCT OF PRIMES (FUNDAMENTAL
THEOREM OF ARITHMETIC), TWO WORDS ARE
ANAGRAMS IF THEIR PRODUCTS ARE THE SAME.

E.G.: $F(A) = 2$, $F(E) = 5$, $F(R) = 7$

$$F(ARE) = 2 \times 7 \times 5 = 70$$

$$F(EAR) = 5 \times 2 \times 7 = 70$$

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are
dogs
ear
gods
no