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def hash1(word):
    return sum(ord(ch) for ch in word) % 10

def hash2(word):
    return len(word) % 10

def hash3(word):
    prod = 1
    for ch in word:
        prod *= ord(ch)
    return prod % 10

bloom_filter = [0] * 10

def add_word(word):
    index1 = hash1(word)
    index2 = hash2(word)
    index3 = hash3(word)
    bloom_filter[index1] = 1
    bloom_filter[index2] = 1
    bloom_filter[index3] = 1

def check_word(word):
    index1 = hash1(word)
    index2 = hash2(word)
    index3 = hash3(word)
    if bloom_filter[index1] == 1 and bloom_filter[index2] == 1 and bloom_filter[index3] == 1:
        return "Probably"
    else:
        return "NO"

add_word("books")
add_word("novels")
add_word("documents")

print(bloom_filter)

print(check_word("books"))
print(check_word("newspapers"))
print(check_word("documents"))
print(check_word("reports"))

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