→ 68_Adnan Shaikh

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from nltk.corpus import words
from random import sample, shuffle
from bloom filter2 import BloomFilter
N = 20
P = 0.05
bloom obj = BloomFilter(N,P)
print(f"Size of Bucket: {bloom_obj.num_bits_m}\nFalse Positive Probability: {bloom_
    Size of Bucket: 125
    False Positive Probability: 0.05
word_present = sample(words.words(),N)
word present
     ['protosalt',
      'cellular',
      'lagopous',
      'bijouterie',
      'fondlingly',
      'retrievable',
      'sheltery',
      'kiekie',
      'preferential',
      'platyope',
      'thunderproof',
      'polydermy',
      'Pondo',
      'restis',
      'Polyangium',
      'unconcessible',
      'befilch',
      'savingness',
      'harmoniousness',
      'stereotropism']
word_absent = sample(set(words.words()).symmetric_difference(set(word_present)),N)
word absent
     ['tergitic',
      'diaheliotropically',
      'Amatembu',
      'cuboides',
      'epedaphic',
      'reappearance',
      'untwirled',
      'honoree',
```

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'infrastapedial',
     'decolorize',
      'Agelaius',
      'Anacreon',
      'expletiveness',
      'spousally',
      'Anthropopithecus',
      'melancholia',
      'verdet',
      'Tenuirostres',
     'redintegration',
     'Purkinje']
for word in word present:
 bloom obj.add(word)
shuffle(word present)
shuffle(word absent)
test words = sample(word present, N//2) + sample(word absent, N//2)
test words
    ['befilch',
      'thunderproof',
     'platyope',
     'savingness',
     'Polyangium',
     'harmoniousness',
      'sheltery',
      'preferential',
     'fondlingly',
     'unconcessible',
      'infrastapedial',
     'spousally',
      'epedaphic',
      'verdet',
      'Amatembu',
      'Anacreon',
      'diaheliotropically',
      'tergitic',
      'reappearance',
      'expletiveness']
for word in test_words:
 if word in bloom obj and word in word present:
      print(f"{word} is present in DB")
 elif word in bloom_obj and word not in word_present:
   print(f"{word} is not present in DB. FALSE POSITIIIVE!!!!")
   print(f"{word} is not present in DB")
    befilch is present in DB
    thunderproof is present in DB
    platyope is present in DB
    savingness is present in DB
```

Polyangium is present in DB harmoniousness is present in DB sheltery is present in DB preferential is present in DB fondlingly is present in DB unconcessible is present in DB infrastapedial is not present in DB spousally is not present in DB epedaphic is not present in DB verdet is not present in DB Amatembu is not present in DB Anacreon is not present in DB diaheliotropically is not present in DB tergitic is not present in DB. FALSE POSITIIIVE!!!!! reappearance is not present in DB expletiveness is not present in DB

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