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In [3]: def find_concatenated_words(words):
        word_set = set(words)
        memo = {}

        def can_form(word):
            if word in memo:
                return memo[word]

            for i in range(1, len(word)):
                prefix = word[:i]
                suffix = word[i:]

                if prefix in word_set and (suffix in word_set or can_form(suffix)):
                    memo[word] = True
                    return True

            memo[word] = False
            return False

        concatenated_words = []
        for word in words:
            word_set.remove(word)
            if can_form(word):
                concatenated_words.append(word)
            word_set.add(word)

        return concatenated_words

# Test case
words = ["cat", "cats", "catsdogcats", "dog", "dogcatsdog", "hippopotamuses", "rat", "ratcatdogcat"]
output = find_concatenated_words(words)
print(output) # Expected output: ["catsdogcats", "dogcatsdog", "ratcatdogcat"]

['catsdogcats', 'dogcatsdog', 'ratcatdogcat']
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In [ ]: