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from collections import Counter

# Read parsed file
with open("parsed_dependency.txt", "r", encoding="utf-8") as file:
    lines = file.readlines()

# Store verb phrases
verb_phrases = []
vp = []

for line in lines:
    line = line.strip()

    # Skip empty lines and sentence headers
    if not line or line.startswith("Sentence:"):
        continue

    # Split line into word, lemma, and UPOS
    parts = line.split("\t")

    if len(parts) != 3:
        continue

    word, lemma, upos = parts

    # Identify verb-related structures
    if upos in ["VERB", "AUX"]:
        vp.append(word)
    else:
        if vp:
            if len(vp) > 1:
                verb_phrases.append(" ".join(vp))
            vp = []

# Add the last verb phrase if it exists
if vp:
    verb_phrases.append(" ".join(vp))

# Count occurrences
vp_counts = Counter(verb_phrases)

# Get the top 10 most frequent verb phrases
top_verb_phrases = vp_counts.most_common(10)

# results
print("\nTop 10 Most Frequent Verb Phrases:")
for phrase, count in top_verb_phrases:
    print(f"{phrase}: {count}")
```