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import json
import random
from pathlib import Path

def main():
    weights = json.loads(Path('weights.json').read_text(encoding='utf-8'))

    res = ''
    for _ in range(12):
        res += get_token(res, weights)
    print(res)

def get_token(all_context, weights):
    context_length = 3
    while context_length > 0:
        relevant_context = all_context[-context_length:]
        if relevant_context in weights:
            vector = weights[relevant_context]
            if len(vector) > 2:
                break
            context_length -= 1

    letters = list(vector.keys())
    rel_weights = list(vector.values())

    random_letter = random.choices(letters, weights=rel_weights, k=1)[0]
    return random_letter

if __name__ == '__main__':
    main()
```