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# # 1) ZIP████████70████████TamperSuspect████████
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import os, re, zipfile, json, hashlib
from pathlib import Path
import pandas as pd
from datetime import datetime
# ██████████
outdir = Path("/mnt/data/KABUKI_INV_2025-06-01_outputs")
outdir.mkdir(exist_ok=True)
def sha256_file(path):
    h = hashlib.sha256()
    with open(path, "rb") as f:
        for chunk in iter(lambda: f.read(8192), b''):
            h.update(chunk)
    return h.hexdigest()
def extract_zip_to_dir(zip_path, extract_to):
    with zipfile.ZipFile(zip_path, "r") as z:
        z.extractall(extract_to)
    return list(Path(extract_to).rglob("*"))
def scan_file_for_tamper(file_path, width_list):
    """████████████████████TamperSuspect████████"""
    with open(file_path, "rb") as f:
        data = f.read()
        text = data.decode("utf-8", "ignore")
        results = []
        for width in width_list:
            windows = [text[i:i+width] for i in range(0, len(text), width)]
            for w in windows:
                if re.search(r"\u[0-9a-fA-F]{4}", w):
                    results.append({"width": width, "window": w[:80]})
        return results
def normalize_time(t):
    try:
        return datetime.fromisoformat(t).isoformat()
    except:
        return t
# 70████████████████
widths = [
    222,555,888,2222,5555,8888,12222,15555,18888,
    22222,25555,28888,32222,35555,38888,42222,45555,
    48888,52222,55555,58888,62222,65555,68888,72222,
    75555,78888,82222,85555,88888,92222,95555,98888,
    102222,105555,108888,112222,115555,118888,122222,
    125555,128888,132222,135555,138888,142222,145555,
    148888,152222,155555,158888,162222,165555,168888,
    172222,175555,178888,182222,185555,188888,192222,
    195555,198888,202222,205555,208888,212222,215555,
    218888,222222
]
# =====
# # 2) PDF████████████████████████████████████████
# =====
def make_pdf(path, text):
    from reportlab.platypus import SimpleDocTemplate, Paragraph
    from reportlab.lib.styles import getSampleStyleSheet
    from reportlab.lib.pagesizes import A4

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[illegible]