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import json import logging from datetime import datetime # Global variable stock_data = {} def addItem(item="default", qty=0, logs=[]): if not item: return stock_data[item] = stock_data.get(item, 0) + qty logs.append("%s: Added %d of %s" % (str(datetime.now()), qty, item)) def removeItem(item, qty): try: stock_data[item] -= qty if stock_data[item] <= 0: del stock_data[item] except: pass def getQty(item): return stock_data[item] def loadData(file="inventory.json"): f = open(file, "r") global stock_data stock_data = json.loads(f.read()) f.close() def saveData(file="inventory.json"): f = open(file, "w") f.write(json.dumps(stock_data)) f.close() def printData(): print("Items Report") for i in stock_data: print(i, "->", stock_data[i]) def checkLowItems(threshold=5): result = [] for i in stock_data: if stock_data[i] < threshold: result.append(i) return result def main(): addItem("apple", 10) addItem("banana", -2) addItem(123, "ten") # invalid types, no check removeItem("apple", 3) removeItem("orange", 1) print("Apple stock:", getQty("apple")) print("Low items:", checkLowItems()) saveData() loadData() printData() eval("print('eval used')") # dangerous main()
```