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TW23

MIDTERM TECHNICAL

Output 1:

```python
def check_palindrome(num):
    return str(num) == str(num)[::-1]

file1=open("numbers.txt", "r")
lines = file1.readlines()
file1.close()

for line_number, line in enumerate(lines, 1):
    numbers = [num.strip() for num in line.split(',') if num.strip().isdigit()]
    numbers = [int(num) for num in numbers]

    if numbers:
        total = sum(numbers)
        result = "This sum is a palindrome." if check_palindrome(total) else "This sum is not a palindrome."
        formatted_numbers = ', '.join(str(num) for num in numbers)
        print(f"Line {line_number}: {formatted_numbers} (Sum: {total}) - {result}")
```

```
PS C:\Users\charl\Desktop\it0011_PUA> & C:/msys64/ucrt64/bin/python.exe c:/Users/charl/Desktop/it0011_PUA/TECHNICAL_MIDTERM/1.py
Line 1: 10, 20, 30, 40, 50 (Sum: 150) - This sum is not a palindrome.
Line 2: 90, 10, 1 (Sum: 101) - This sum is a palindrome.
Line 3: 20, 2, 80, 120 (Sum: 222) - This sum is a palindrome.
Line 4: 200, 171, 459, 151, 20 (Sum: 1001) - This sum is a palindrome.
Line 5: 50, 60, 33, 22, 6 (Sum: 171) - This sum is a palindrome.
Line 6: 101, 202, 303, 404, 505 (Sum: 1515) - This sum is not a palindrome.
Line 7: 1000, 800, 200, 2 (Sum: 2002) - This sum is a palindrome.
Line 8: 85, 56, 34, 44, 23 (Sum: 242) - This sum is a palindrome.
Line 9: 5, 10, 20, 40, 80 (Sum: 155) - This sum is not a palindrome.
Line 10: 305, 700, 1058, 587, 12 (Sum: 2662) - This sum is a palindrome.
PS C:\Users\charl\Desktop\it0011_PUA>
```

Output 2:

```python
dateInput = input("Enter date (MM/DD/YY): ")

def convertDateFormat(dateInput):
    month, day, year = dateInput.split("/")

    if month == "01":
        monthName = "January"
    elif month == "02":
        monthName = "February"
    elif month == "03":
        monthName = "March"
    elif month == "04":
        monthName = "April"
    elif month == "05":
        monthName = "May"
    elif month == "06":
        monthName = "June"
    elif month == "07":
        monthName = "July"
    elif month == "08":
```

```
PS C:\Users\charl\Desktop\it0011_PUA> & C:/msys64/ucrt64/bin/python.exe c:/Users/charl/Desktop/it0011_PUA/TECHNICAL_MIDTERM/1.py
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Line 9: 5, 10, 20, 40, 80 (Sum: 155) - This sum is not a palindrome.
Line 10: 305, 700, 1058, 587, 12 (Sum: 2662) - This sum is a palindrome.
PS C:\Users\charl\Desktop\it0011_PUA>
```