

pythonProject2 - max number of jumps.py

pythonProject2 > max number of jumps.py

Project

- climbstaries.py
- combination letters.py
- common two strings.py
- current number.py
- duplication.py
- even or odd.py
- factorial.py
- fizzbuzz.py
- greatest.py
- isomorphic.py
- leapyear.py
- list.py
- main.py
- matrixmultiplication.py
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- paranthesis.py
- parenthesis.py
- permute.py
- polindrome.py
- polindsrome num.py
- possible combinations.py

```
1 def minJumps(arr, l, h):
2     if (h==l):
3         return 0
4     if (arr[l]==0):
5         return float('inf')
6     min = float('inf')
7     for i in range(l + 1, h + 1):
8         if (i < l + arr[l] + 1):
9             jumps = minJumps(arr, i, h)
10            if (jumps != float('inf') and
11                jumps + 1 < min):
12                min = jumps + 1
13    return min
14 arr = [1,3,5,8,9,2,6,7,6,8,9]
15 n = len(arr)
16 print('Minimum number of jumps to reach ' + str(arr[n-1]) + ' is', minJumps(arr, 0, n - 1))
```

Run: polindsrome num x max number of jumps x

C:\Users\shaik\PycharmProjects\pythonProject2\venv\Scripts\python.exe "C:/Users/shaik/PycharmProjects/pythonProject2/max number of jumps.py"

Minimum number of jumps to reach end is 3

Process finished with exit code 0

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Shadows built-in name 'min'

6:7 CRLF UTF-8 4 spaces Python 3.9 (pythonProject2) (2)

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pythonProject2 - polindrome.py

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```
7 x = ""
8 diff = ord('a') - ord('A')
9
10 for i in s:
11     if ord(i)>=ord('a') and ord(i)<=ord('z') or ord(i)>=ord("0") and ord(i)<=ord("9"):
12         x+=i
13     elif ord(i)>=ord('A') and ord(i)<=ord('Z'):
14         i = chr(diff+ord(i))
15         x+=i
16     #print(s)
17     #print(x)
18     return x == x[::-1]
19
20 ob1 = Solution()
21 print(ob1.isPalindrome("A Man, a Plan, a Canal: Panama"))
```

Run: polindsrome num x polindrome x

C:\Users\shaik\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/shaik/PycharmProjects/pythonProject2/polindrome.py

True

Process finished with exit code 0

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PEP 8: E111 indentation is not a multiple of 4

3:11 CRLF UTF-8 3 spaces\* Python 3.9 (pythonProject2) (2)

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pythonProject2 - seasons.py

pythonProject2

- venv library root
  - array of integer good pairs.py
  - binary numbers.py
  - climbstaries.py
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```
1 month = input("Input the month (January, February etc.): ")
2 day = int(input("Input the day: "))
3 if month in ('January', 'February'):
4     season = 'winter'
5 elif month in ('April', 'May', 'June'):
6     season = 'spring'
7 elif month in ('July', 'August', 'September', 'MARCH'):
8     season = 'summer'
9 else:
10    season = 'autumn'
11 if (month == 'March') and (day > 19):
12    season = 'SUMMER'
13 elif (month == 'June') and (day > 20):
14    season = 'WINTER'
15 elif (month == 'September') and (day > 21):
16    season = 'autumn'
17 elif (month == 'December') and (day > 20):
18    season = 'winter'
elif month in ('July', 'August'...
```

Run: seasons

C:\Users\shaik\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/shaik/PycharmProjects/pythonProject2/seasons.py

Input the month (January, February etc.): march

Input the day: 21

Season is autumn

Process finished with exit code 0

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Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show again // Configure... (16 minutes) 7:1 CRLF UTF-8 Tab\* Python 3.9 (pythonProject2) (2)

29°C Mostly sunny

09:30 20-09-2022

pythonProject2 - roman number.py

pythonProject2 > roman number.py

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- pyramid.py
- remove duplication.py
- remove letter.py
- REVERSE A number.py
- reverse string.py
- roman number.py
- seasons.py
- sorted list.py
- student.py
- triangle.py

```
1 def value(r):
2     if (r == 'I'):
3         return 1
4     if (r == 'V'):
5         return 5
6     if (r == 'X'):
7         return 10
8     if (r == 'L'):
9         return 50
10    if (r == 'C'):
11        return 100
12    if (r == 'D'):
13        return 500
14    if (r == 'M'):
15        return 1000
16    return -1
17
18 value() if (r == 'D')
```

Run: roman number

C:\Users\shaik\PycharmProjects\pythonProject2\venv\Scripts\python.exe "C:/Users/shaik/PycharmProjects/pythonProject2/roman number.py"

Integer form of Roman Numeral is

1904

Process finished with exit code 0

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12:19 CRLF UTF-8 4 spaces Python 3.9 (pythonProject2) (2)

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pythonProject2 - main.py

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```
1 str1 = input("Please Enter Your Own String : ")
2 vowels = 0
3 consonants = 0
4 for i in str1:
5     if(i == 'a' or i == 'e' or i == 'i' or i == 'o' or i == 'u'
6     or i == 'A' or i == 'E' or i == 'I' or i == 'O' or i == 'U'):
7         vowels = vowels + 1
8     else:
9         consonants = consonants + 1
10 print("Total Number of Vowels in this String = ", vowels)
11 print("Total Number of Consonants in this String = ", consonants)
```

Run: main

C:\Users\shaik\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/shaik/PycharmProjects/pythonProject2/main.py

Please Enter Your Own String : **apple**

Total Number of Vowels in this String = 2

Total Number of Consonants in this String = 3

Process finished with exit code 0

Version Control Run Python Packages TODO Python Console Problems Terminal Services

PEP 8: E111 indentation is not a multiple of 4

7:1 CRLF UTF-8 4 spaces Python 3.9 (pythonProject2) (2)

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pythonProject2 - main.py

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pythonProject2 > main.py

Project

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  - pyvenv.cfg
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- REVERSE A number.py

```
1 a=int(input("total users: "))
2 b=int(input("staff users: "))
3 if(a<=0 or a==b or a==450 or a==600):
4     print("invalid input")
5 else:
6     y=b/3
7     s=a-b-y
8     print("student users: ",s)
```

Run: main

C:\Users\shaik\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/shaik/PycharmProjects/pythonProject2/main.py

total users: 856  
staff users: 126  
student users: 688.0

Process finished with exit code 0

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7:1 CRLF UTF-8 4 spaces Python 3.9 (pythonProject2)

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11:33 14-09-2022

pythonProject2 - student.py

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```
1 a=int(input("total users: "))
2 b=int(input("staff users: "))
3 if(a<=0 or a==b or a==450 or a==600):
4     print("invalid input")
5 else:
6     y=b/3
7     s=a-b-y
8     print("student users: ",s)
```

Run: student

```
C:\Users\shaik\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/shaik/PycharmProjects/pythonProject2/student.py
total users: 856
staff users: 126
student users: 688.0

Process finished with exit code 0
```

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pythonProject2 - current number.py

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External Libraries

Scratches and Consoles

```
1 class Solution:
2     def smallerNumbersThanCurrent(self, nums):
3         l=len(nums)
4         ans=[]
5         count=0
6         for i in nums:
7             for j in range(l):
8                 if (nums[j]-i)<0:
9                     count+=1
10            ans.append(count)
11            count=0
12        return
```

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12:15 CRLF UTF-8 4 spaces Python 3.9 (pythonProject2) (2)

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