


Prepare > Python

Python

34/115 challenges solved
Rank: 55038 | Points: 975


Maximize It!
Hard, Problem Solving (Basic), Max Score: 50, Success Rate: 81.27%

★ Solved

Validating Postal Codes
Hard, Max Score: 80, Success Rate: 87.40%

★ Solved

Matrix Script
Hard, Problem Solving (Advanced), Max Score: 100, Success Rate: 89.98%

★ Solved

STATUS
☐ Solved
☐ Unsolved

SKILLS
☐ Problem Solving (Basic)
☐ Python (Basic)
☐ Problem Solving (Advanced)
☐ Python (Intermediate)

DIFFICULTY
☐ Easy
☐ Medium
☒ Hard

Challenge 1

Enter your code here. Read input from STDIN. Print output to STDOUT

```
from itertools import product
```

```
NUMBER_OF_LISTS, MODULUS = map(int, input().split())
```

```
LISTS_OF_LISTS = [list(map(int, input().split()[1:])) for _ in range(NUMBER_OF_LISTS)]
```

```
def squared(element):
```

```
    return element**2
```

```
COMBS = product(*LISTS_OF_LISTS)
```

```
RESULTS = [sum(map(squared, combo)) % MODULUS for combo in COMBS]
```

```
print(max(RESULTS))
```

Challenge 2

```
regex_integer_in_range = r"[1-9][\d]{5}" # Do not delete 'r'.
```

```
regex_alternating_repetitive_digit_pair = r"(\d)(?=\d\1)" # Do not delete 'r'.
```

```
import re
```

```
P = input()
```

```
print (bool(re.match(regex_integer_in_range, P))
```

```
and len(re.findall(regex_alternating_repetitive_digit_pair, P)) < 2)
```

Challenge 3

```
import math
```

```
import os
```

```
import random
```

```
import re
```

```
import sys
```

```
first_multiple_input = input().rstrip().split()
```

```
n = int(first_multiple_input[0])
```

```
m = int(first_multiple_input[1])
```

```
matrix = []
```

```
t = []
```

```
for i in range(n):
```

```
    matrix_item = [x for x in input()]
```

```
    matrix.append(matrix_item)
```

```
for i in range(m):
```

```
    for j in range(n):
```

```
        t.append(matrix[j][i])
```

```
s = ''.join(t)
```

```
path = re.compile(r'\b[!@#$%&]+\b', re.M)
```

```
k = re.sub(path, ' ', s)
```

```
print(k)
```