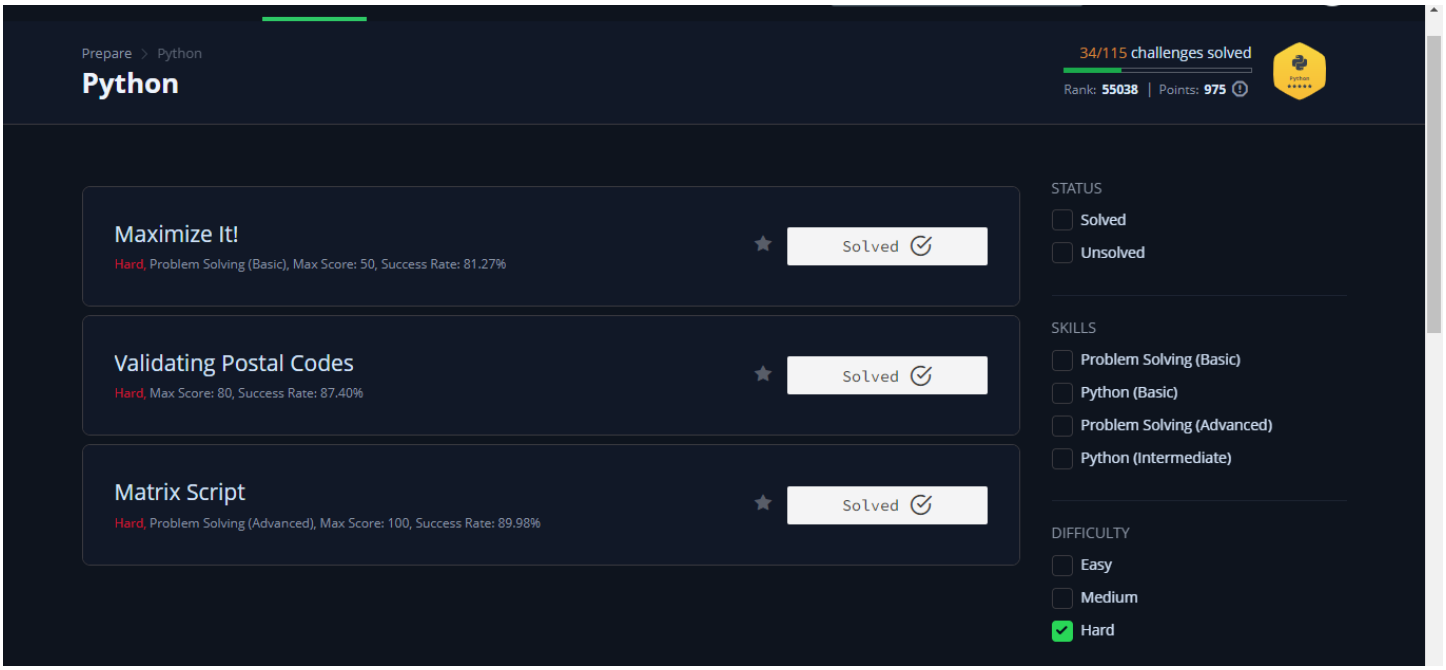

Challenge 1

```
# 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)
```