AI at ACM

AI-ACM SIG Tasks

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BRANCH: S3 CSE AI (A)

TASK 1

Category 2

1) **Complete Introduction to Machine Learning course on Kaggle:**
   Time taken: 6 hours max
   Link: https://www.kaggle.com/learn/intro-to-machine-learning
2) **Hackerrank Contest:**
   Time taken: 5 days max
   Link: www.hackerrank.com/ai-sig-contest

TASK 2

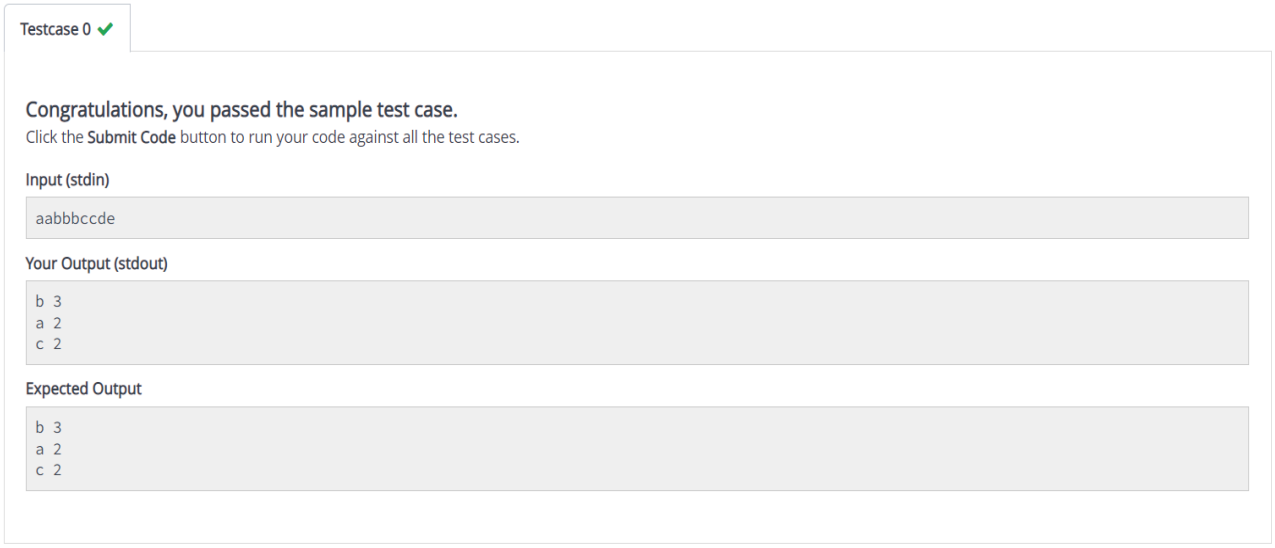
Hackerrank Problems

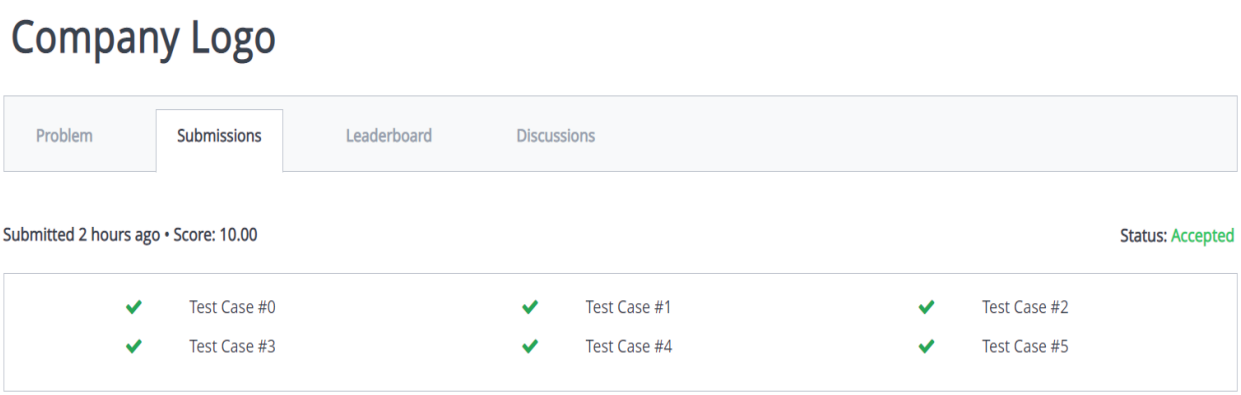
1. COMPANY LOGO

Code:

```
import math
import os
import random
import re
import sys
from collections import Counter



if __name__ == '__main__':
    s = input()
    s1 = sorted(s)
    counter = Counter(s1).most_common(3)

for x,y in counter:
    print(x, y)
```

Output:





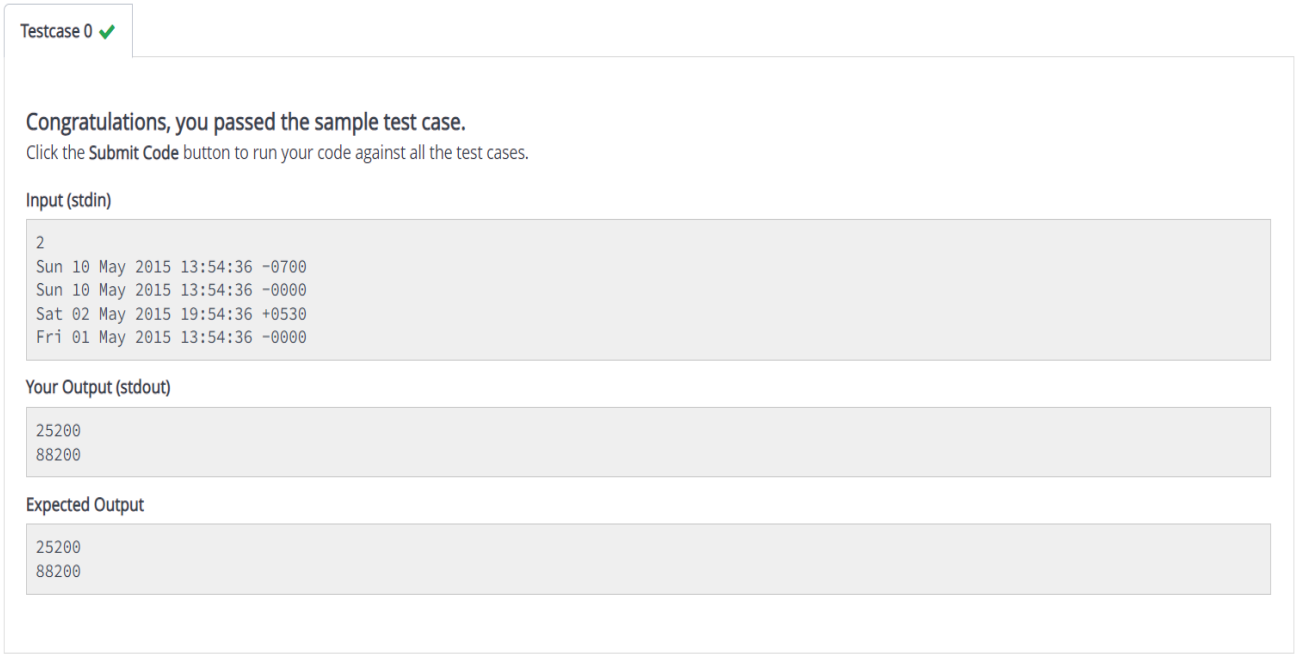
2. TIME DELTA

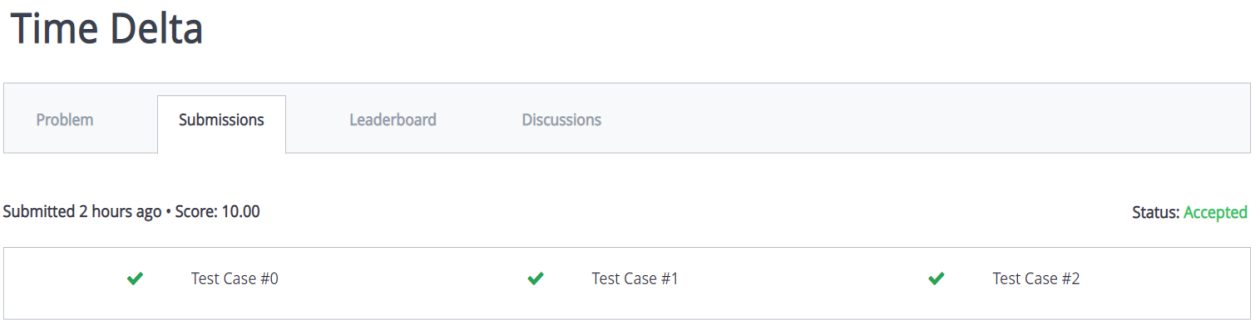
Code:

```
#!/bin/python3


import math

import os

import random
```

```
import re
import sys
from datetime import datetime

# Complete the time_delta function below.
def time_delta(t1, t2):
    # Sun 10 May 2015 13:54:36 -0700
    # %a  %d  %b  %Y  %H:%M:%S %z

    time_form = "%a %d %b %Y %H:%M:%S %z"
    first_time = datetime.strptime(t1, time_form)
    second_time = datetime.strptime(t2, time_form)
    return str(abs(int((first_time-second_time).total_seconds())))

if __name__ == '__main__':
    fptr = open(os.environ['OUTPUT_PATH'], 'w')
    t = int(input())

    for t_itr in range(t):
        t1 = input()
        t2 = input()
        delta = time_delta(t1, t2)
        fptr.write(delta + '\n')

    fptr.close()
```

Output:





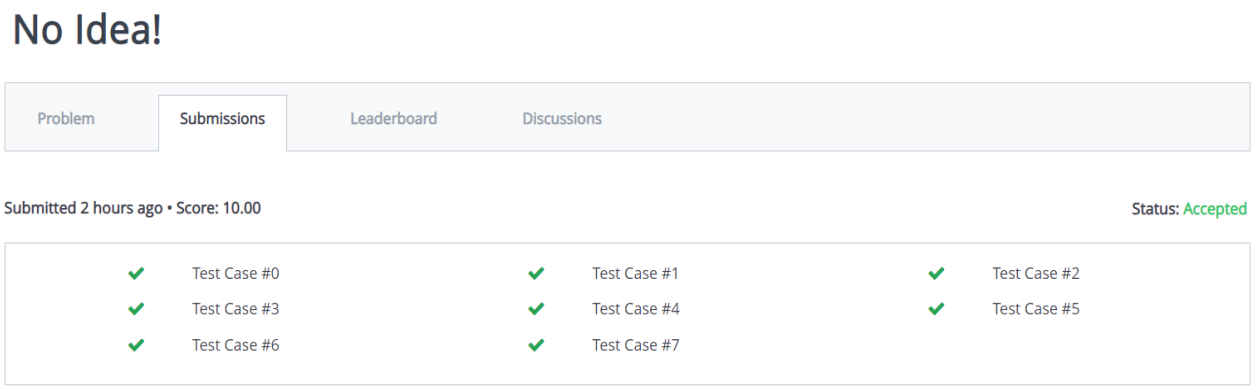
3. NO IDEA

Code:

```
input()
happiness = 0
array = list(map(int, input().split()))
set_a = set(map(int, input().split()))
```

```
set_b = set(map(int, input().split()))

for i in array:
    if i in set_a:
        happiness += 1
    elif i in set_b:
        happiness -= 1

print(happiness)
```

Output:

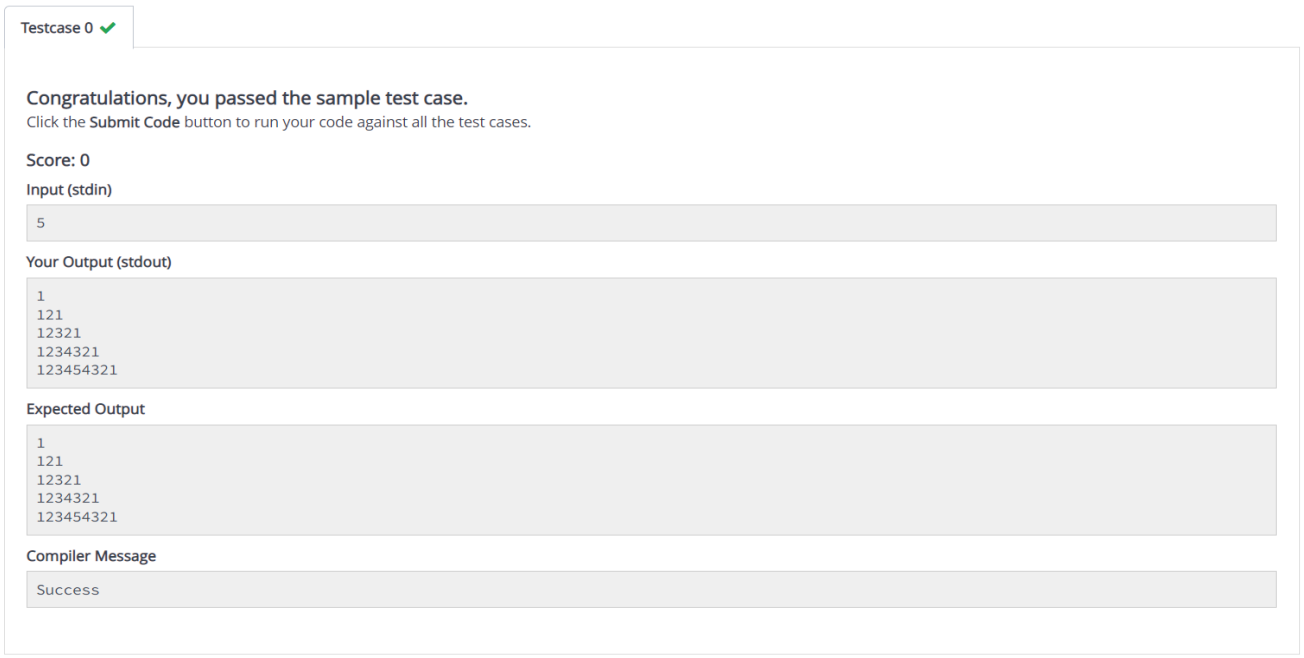


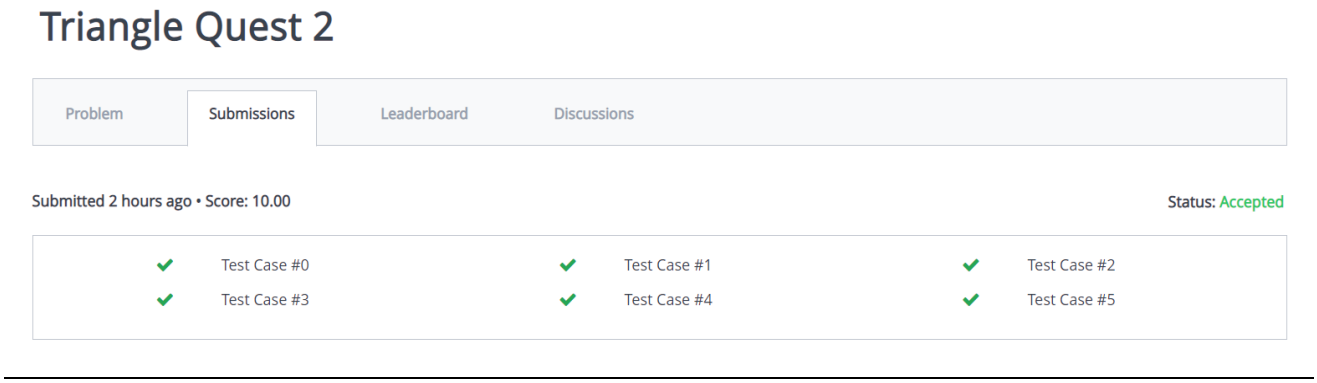
4. TRIANGLE QUEST 2

Code:

```
for i in range(1,int(input())+1):
    print(((10**i)//9)**2)
```

Output:



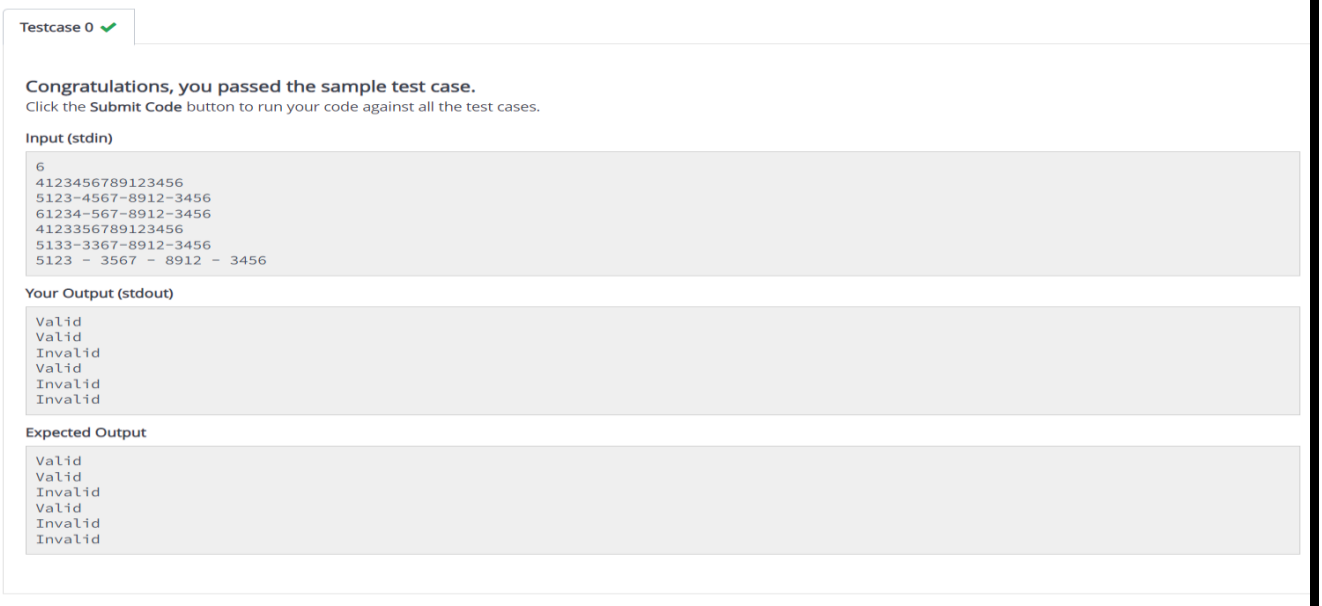


5. VALIDATING VREADIT CARD NUMBERS

Code:

```
import re


inpt = int(input())
for i in range(inpt):
    number = input()
    c1 = bool(re.match(r"^[456]\d{15}$", number))
    c2 = bool(re.match(r"^[456]\d{3}\-\d{4}\-\d{4}\-\d{4}$", number))
    number = number.replace("-", "")
    c3 = bool(re.match(r"(?!.*(\d)(-?\1){3})", number))


    if (c1 or c2) and c3:
        print("Valid")
    else:
        print("Invalid")
```

Output:



Validating Credit Card Numbers

Problem | Submissions | Leaderboard | Discussions

Submitted a few seconds ago • Score: 10.00 Status: Accepted

✔ Test Case #0	✔ Test Case #1	✔ Test Case #2
✔ Test Case #3	✔ Test Case #4	✔ Test Case #5

AI SIG CONTEST Details ▶

Challenges

Company Logo
Success Rate: 100.00% Max Score: 10 Difficulty: Medium — Try Again

Time Delta
Success Rate: 100.00% Max Score: 10 Difficulty: Medium — Try Again

No Idea!
Success Rate: 100.00% Max Score: 10 Difficulty: Medium — Try Again

Triangle Quest 2
Success Rate: 100.00% Max Score: 10 Difficulty: Medium — Try Again

Validating Credit Card Numbers
Success Rate: 80.00% Max Score: 10 Difficulty: Medium — Try Again