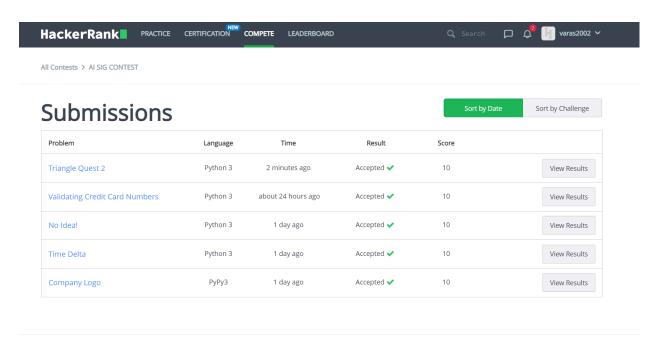
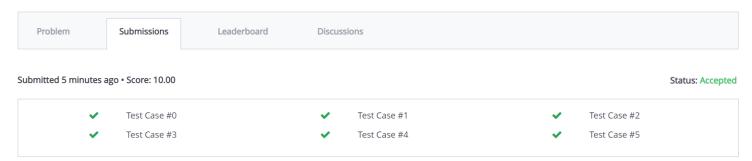
VARALAKSHMI M P

S3 AIE B



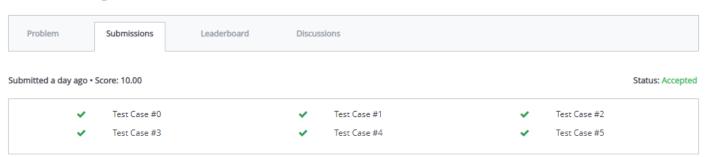
1.

Triangle Quest 2





Validating Credit Card Numbers



```
Language: Python 3
                                                                                                                                                              P Open in editor
 1 import re
 3 for i in range(int(input())):
4
5
         card = input()
 6
7
8
         # using try and except block
            assert re.search(r'^[456]', card)
assert re.search(r'^(-?\d{4}){4}$', card)
assert not re.search(r'(\d)(-?\l){3}', card)
10
11
12
13
14
15
         except:
             print('Invalid')
        else:
16
17
              print('Valid')
```



No Idea!

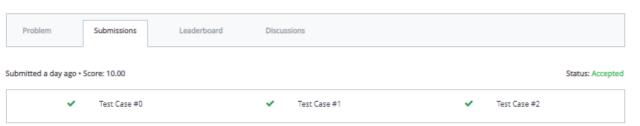
Problem	Submissions	Leaderboard	Discus	Discussions			
Submitted a day ago • Score: 10.00 Status: Accept							
~	Test Case #0		~	Test Case #1	~	Test Case #2	
~	Test Case #3		~	Test Case #4	✓	Test Case #5	
~	Test Case #6		~	Test Case #7			

```
Language: Python 3
                                                                                                                                        P Open in editor
1 def main():
 3
        happiness = 0
 4
 5
        #user inputs
6
7
8
        n, m = map(int, input().strip().split(' '))
        arr = list(map(int, input().strip().split(' ')))
9
        ok = set(map(int, input().strip().split(' ')))
notok = set(map(int, input().strip().split(' ')))
10
12
13
14
        #using for loop
for i in arr:
15
            if i in ok:
16
17
                 happiness += 1
            elif i in notok:
                 happiness -= 1
18
19
20
21
        print(happiness)
22
23 main()
```

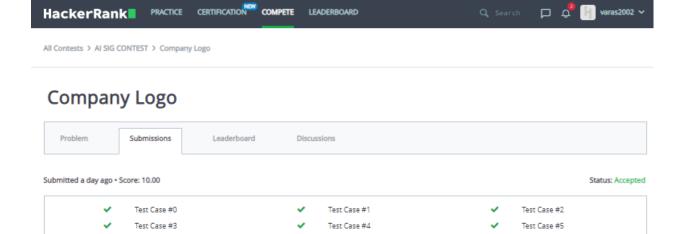
4.



Time Delta



```
Language: Python 3
                                                                                                                                                           P Open in editor
 1 #!/bin/python3
2
3 import math
 4 import os
 5 import random
 6 import re
 7 import sys
8 from datetime import datetime
10 # Complete the time_delta function below.
11 def time_delta(t1, t2):
      first = datetime.strptime(t1,'%a %d %b %Y %H:%M:%S %z')
second = datetime.strptime(t2,'%a %d %b %Y %H:%M:%S %z')
return str(abs(int((first-second).total_seconds())))
12
13
14
15
17 if __name__ == '__main__':
18     fptr = open(os.environ['OUTPUT_PATH'], 'w')
18
19
20
        t = int(input())
21
22
23
        for t_itr in range(t):
    t1 = input()
24
25
              t2 = input()
26
27
28
              delta = time_delta(t1, t2)
29
              fptr.write(delta + '\n')
30
31
         fptr.close()
```



```
Language: PyPy3

#!/bin/python3

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

if __name__ == '__main__':
    s = input()
    s = sorted(s)

freq = Counter(list(s))

for k, v in freq.most_common(3):
    print(k, v)
```