

Tasks 2 – HackerRank ACMAI
hackerrank id – adithya6119

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1.

HackerRank NEW PREPARE CERTIFY COMPETE

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Company Logo

Problem

Submissions

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Submitted a day ago • Score: 10.00

Status: **Accepted**

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

Submitted Code

Language: Python 3 [Open in editor](#)

```
1 if __name__ == '__main__':
2     s = sorted(input())
3     s1=tuple(s)
4     d1={}
5     ds={}
6     for i in range (0,len(s1)):
7         r=s1.count(s1[i])
8         d1[s1[i]]=r
9     ds=sorted(d1.items(), key=lambda item: item[1], reverse=True)
10    o=1
11    for dsmini in ds:
12        print(dsmini[0], dsmini[1])
13        o+=1
14        if o==4:
15            break;
```

2.

All Contests > AI SIG CONTEST > Time Delta

Time Delta

Problem	Submissions	Leaderboard	Discussions
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Submitted a day ago • Score: 10.00

Status: Accepted

✓	Test Case #0	✓	Test Case #1	✓	Test Case #2
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Submitted Code

Language: Python 3 Open in editor

```
1
2 import math
3 import os
4 import random
5 import re
6 import sys
7
8 from datetime import datetime
9
10 # Complete the time_delta function below.
11 def time_delta(t1, t2):
12
13     first = datetime.strptime(t1,'%a %d %b %Y %H:%M:%S %z')
14     second = datetime.strptime(t2,'%a %d %b %Y %H:%M:%S %z')
15     return str(abs(int((first-second).total_seconds()))))
16
17 if __name__ == '__main__':
18     fptr = open(os.environ['OUTPUT_PATH'], 'w')
19
20     t = int(input())
21
22     for t_itr in range(t):
23         t1 = input()
24
25         t2 = input()
26
27         delta = time_delta(t1, t2)
28
29         fptr.write(delta + '\n')
30
31     fptr.close()
32
```

3.

All Contests > AI SIG CONTEST > No Idea!

No Idea!

Problem	Submissions	Leaderboard	Discussions
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Submitted a day ago • Score: 10.00


Status: **Accepted**

Success 0.03s

✓	Test Case #0	✓	Test Case #1	✓	Test Case #2
✓	Test Case #3	✓	Test Case #4	✓	Test Case #5
✓	Test Case #6	✓	Test Case #7		

Submitted Code

Language: Python 3

 Open in editor

```
1 if __name__=="__main__":
2     happiness = 0
3     n,m = map(int, input().strip().split(' '))
4     arr = list(map(int, input().strip().split(' ')))
5
6     good = set(map(int, input().strip().split(' ')))
7     bad = set(map(int, input().strip().split(' ')))
8     |
9     for i in arr:
10         if i in good:
11             happiness += 1
12         elif i in bad:
13             happiness -= 1
14     print(happiness)
```

4.

All Contests > AI SIG CONTEST > Triangle Quest 2

Triangle Quest 2

Problem	Submissions	Leaderboard	Discussions
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Submitted a day ago • Score: 10.00

Status: **Accepted**

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

Submitted Code

Language: Python 3 [Open in editor](#)

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

5.

HackerRank PREPARE ^{NEW} CERTIFY COMPETE

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All Contests > AI SIG CONTEST > Validating Credit Card Numbers

Validating Credit Card Numbers

Problem	Submissions	Leaderboard	Discussions
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Submitted a day ago • Score: 10.00

Status: Accepted

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

Submitted Code

Language: Python 3 [Open in editor](#)

```
1 import re
2
3 # taking input from user
4 n = int(input())
5
6 for t in range(n):
7
8     #taking the credit card number from user
9     credit = input().strip()
10    credit_removed_hiphen = credit.replace('-', '')
11
12    # valid is true in the beginning
13    valid = True
14
15    length_16 = bool(re.match(r'^[4-6]\d{15}$', credit))
16    length_19 = bool(re.match(r'^[4-6]\d{3}-\d{4}-\d{4}-\d{4}$', credit))
17    consecutive = bool(re.findall(r'(?=\d)\1\1\1', credit_removed_hiphen))
18
19    # checking if the above expressions are true
20    if length_16 == True or length_19 == True:
21        if consecutive == True:
22            valid=False
23    else:
24        valid = False
25    if valid == True:
26        print('Valid')
27    else:
28        print('Invalid')
```