

# AI CLUB

## HACKERRANK AI SIG CONTEST

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### QUESTION -1

The screenshot displays the HackerRank interface for the 'Company Logo' challenge. The top navigation bar includes the HackerRank logo and tabs for PREPARE, CERTIFY, and COMPETE. The user's profile 'adithyadvarma10' is visible. The challenge page shows the 'Submissions' tab selected, with a table of submissions. Two submissions are listed, both with a score of 10.00 and status 'Accepted'. The first submission was made 5 days ago, and the second was made a few seconds ago. Both submissions show 6 test cases passed. The submitted code is in Python 3 and uses the Counter class to find the most common characters.

Company Logo

Problem Submissions Leaderboard Discussions

Submitted 5 days 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 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

Submitted Code

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

```
1 from collections import Counter
2 INPUT=input('')
3
4
5 #counter is used to create like a dict type(not a dict) and stores the letter and its count in a key value format as a list
6 final=Counter(sorted(INPUT)).most_common(3)
7 #most common is used to get the top most common count of the string as in the que
8 #print(final)
9
10 for key,value in final:
11     print(key,value)
```

## QUESTION-2

hackerank.com/contests/ai-sig-contest/challenges/python-time-delta/submissions/code/1351049744

HackerRank

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All Contests > AI SIG CONTEST > Time Delta

### Time Delta

Problem

Submissions

Leaderboard

Discussions

Submitted 4 days ago • Score: 10.00

Status: Accepted

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

Problem

Submissions

Leaderboard

Discussions

Submitted in a few seconds • Score: 10.00

Status: Accepted

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

Submitted Code

Language: Python 3

Open in editor

```
1#!/bin/python3
2
3import math
4import os
5import random
6import re
7import sys
8from datetime import datetime
9
10# Complete the time_delta function below.
11def time_delta(t1, t2):
12    Format="%a %d %b %Y %H:%M:%S %z"
13    firsttime=datetime.strptime(t1,Format)# converts the input into the format
14    secondtime=datetime.strptime(t2,Format)
15    x= abs(firsttime-secondtime).total_seconds()#gives us the total time in seconds
16    out=str(int(x))
17    return out
18
19
20if __name__ == '__main__':
```

## QUESTION-3

hackerrank.com/contests/ai-sig-contest/challenges/no-idea/submissions/code/1351042484

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All Contests > AI SIG CONTEST > No Idea!

No Idea!

Problem

Submissions

Leaderboard

Discussions

Submitted 4 days ago • Score: 10.00

Status: Accepted

✓

Test Case #0

✓

Test Case #1

✓

Test Case #2

✓

Test Case #3

✓

Test Case #4

✓

Test Case #5

✓

Test Case #6

✓

Test Case #7

No Idea!

Problem

Submissions

Leaderboard

Discussions

Submitted in a few seconds • Score: 10.00

Status: Accepted

✓

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 n,m=map(int, input().split())
2
3 array1=list(map(int, input().split()))
4 A=set(map(int, input().split()))
5 B=set(map(int, input().split()))
6
7 #we check the element in A - element in B so that the difference is what we need as the answer
8 print(sum((i in A)-(i in B)for i in array1))
```

## QUESTION-4

← → ↻

hackerrank.com/contests/ai-sig-contest/challenges/triangle-quest-2/submissions/code/1351046197

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All Contests &gt; AI SIG CONTEST &gt; Triangle Quest 2

### Triangle Quest 2

Problem

Submissions

Leaderboard

Discussions

Submitted 4 days ago • Score: 10.00

Status: **Accepted**

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

✓ Test Case #3

✓ Test Case #4

✓ Test Case #5

## Triangle Quest 2

Problem

Submissions

Leaderboard

Discussions

Submitted in a few seconds • 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
2
3
4
5 for i in range(1,int(input())+1): #More than 2 lines will result in 0 score. Do not leave a blank line also
6     print((pow(10,i)//9)**2)
```

## QUESTION-5

hackerank.com/contests/ai-sig-contest/challenges/validating-credit-card-number/submissions/code/1351254619

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All Contests > AI SIG CONTEST > Validating Credit Card Numbers

### Validating Credit Card Numbers

Problem

Submissions

Leaderboard

Discussions

Submitted 3 minutes 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     card = input().strip()
10    cardwithnohyphen = card.replace('-', '')
11
12    # valid is true in the beggining
13    a = True
14
15    len16 = bool(re.match(r'^[4-6]\d{15}$', card))
16    len19 = bool(re.match(r'^[4-6]\d{3}-\d{4}-\d{4}-\d{4}$', card))
17    consec_num = bool(re.findall(r'(?=(\d)\1\1\1)', cardwithnohyphen))
18
19    # checking if the above expressions are true
20    if len16 == True or len19 == True:
21        if consec_num == True:
22            a=False
23    else:
24        a = False
25    if a == True:
26        print('Valid')
27    else:
28        print('Invalid')
```