AI CLUB

HACKERRANK AI SIG CONTEST

Adithya D Varma

AM.EN.U4AIE21104

QUESTION -1


```python
from collections import Counter
INPUT=input('')


#counter is used to create like a dict type(not a dict) and stores the letter and its count in a key vaue format as a list
final1=Counter(sorted(INPUT)).most_common(3)
#most common is used to get the top most common count of the string as in the que
#print(final1)

for key,value in final1:
    print(key,value)
```

QUESTION-2

HackerRank PREPARE CERTIFY **COMPETE**
Q Search adithyadvarma10

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

```python
#!/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):
    Format="%a %d %b %Y %H:%M:%S %z"
    firsttime=datetime.strptime(t1,Format)# converts the input into the format
    secondtime=datetime.strptime(t2,Format)
    x= abs(firsttime-secondtime).total_seconds()#gives us the total time in seconds
    out=str(int(x))
    return out


if __name__ == '__main__':
```

QUESTION-3

HackerRank PREPARE CERTIFY COMPETE

Q Search   adithyadvarma10

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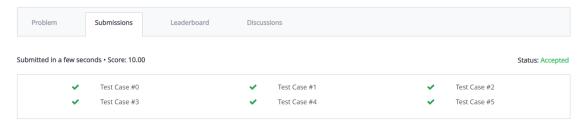
```python
1 n,m=map(int, input().split())
2
3 array1=list(map(int, input().split()))
4 A=set(map(int, input().split()))
5 B=set(map(int, input().split()))
6
7 #we check the element in A - element in B so that the difference is what we need as the answer
8 print(sum((i in A)-(i in B)for i in array1))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

QUESTION-4

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

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

QUESTION-5

HackerRank PREPARE CERTIFY COMPETE   Q Search   adithyadvarma10 ∨

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

```python
import re

# taking input from user
n = int(input())

for t in range(n):

    #taking the credit card number from user
    card = input().strip()
    cardwithnohyphen = card.replace('-','')

    # valid is true in the beggining
    a = True

    len16 = bool(re.match(r'^[4-6]\d{15}$',card))
    len19 = bool(re.match(r'^[4-6]\d{3}-\d{4}-\d{4}-\d{4}$',card))
    consec_numb = bool(re.findall(r'(?=(\d)\1\1\1)',cardwithnohyphen))

    # checking if the above expressions are true
    if len16 == True or len19 == True:
        if consec_numb == True:
            a=False
    else:
        a = False
    if a == True:
        print('Valid')
    else:
        print('Invalid')
```