

## AI at ACM

### AI-ACM SIG Tasks

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### TASK

#### 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](https://www.hackerrank.com/ai-sig-contest)

### Task-1

### Certificate



### Task-2

# HACKERRANK

## PROBLEM-1

### COMPANY LOGO

#### Code:

```
import math
import os
import random
import re
import sys

from collections import Counter


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

    result = Counter(sorted(s)).most_common(3)

    for key, value in result:

        print(key, value)
```

#### Output:

Testcase 0 

**Congratulations, you passed the sample test case.**  
Click the **Submit Code** button to run your code against all the test cases.

**Input (stdin)**  
aabbccde

**Your Output (stdout)**  
b 3  
a 2  
c 2

**Expected Output**  
b 3  
a 2  
c 2

### Acceptance

hackerank.com/contests/ai-sig-contest/challenges/most-commons/submissions/code/1350832419

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### Company Logo

Problem Submissions Leaderboard Discussions

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 #!/bin/python3
2
3 import math
4 import os
5 import random
6 import re
```

## PROBLEM-2

## TIME DELTA

### Code:

import math

import os

import random

import re

import sys

from datetime import datetime as dt

# Complete the time\_delta function below.

def time\_delta(t1, t2):

    first\_date = dt.strptime(t1, "%a %d %b %Y %H:%M:%S %z")

    second\_date = dt.strptime(t2, "%a %d %b %Y %H:%M:%S %z")

    return str(abs(int((first\_date-second\_date).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:

Testcase 0 ✔

**Congratulations, you passed the sample test case.**  
Click the **Submit Code** button to run your code against all the test cases.

**Input (stdin)**

```

2
Sun 10 May 2015 13:54:36 -0700
Sun 10 May 2015 13:54:36 -0000
Sat 02 May 2015 19:54:36 +0530
Fri 01 May 2015 13:54:36 -0000

```

**Your Output (stdout)**

```

25200
88200

```

**Expected Output**

```

25200
88200

```

## Acceptance:

hackerrank.com/contests/ai-sig-contest/challenges/python-time-delta/submissions/code/1350832445

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### Time Delta

Problem Submissions Leaderboard Discussions

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 #!/bin/python3
2
3 import math
4 import os
5 import random
6 import re
7 import sys

```

## PROBLEM-3

### NO IDEA!

#### Code:

```
n,m = map(int,input().split())
array = list(map(int,input().split()))
set_A = set(map(int,input().split()))
set_B = set(map(int,input().split()))
print(sum((i in set_A) - (i in set_B) for i in array))
```

#### Output:

Custom Testcase ⓘ

Compilation Successful

Input (stdin)

```
3 2
1 5 3
3 1
5 7
```

Your Output

```
1
```

#### Acceptance:

[hackerank.com/contests/ai-sig-contest/challenges/no-idea/submissions/code/1350832465](#)

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## No Idea!

Problem Submissions Leaderboard Discussions

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✓ 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 array = list(map(int,input().split()))
3 set_A = set(map(int,input().split()))
4 set_B = set(map(int,input().split()))
```

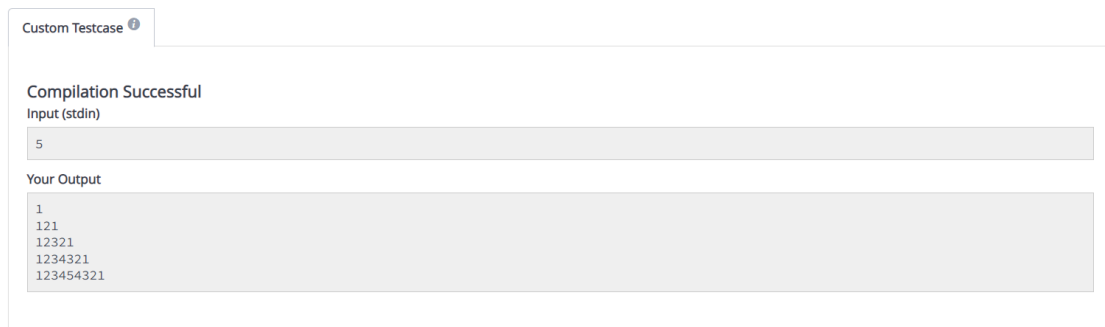
## PROBLEM-4

## TRIANGLE QUEST 2

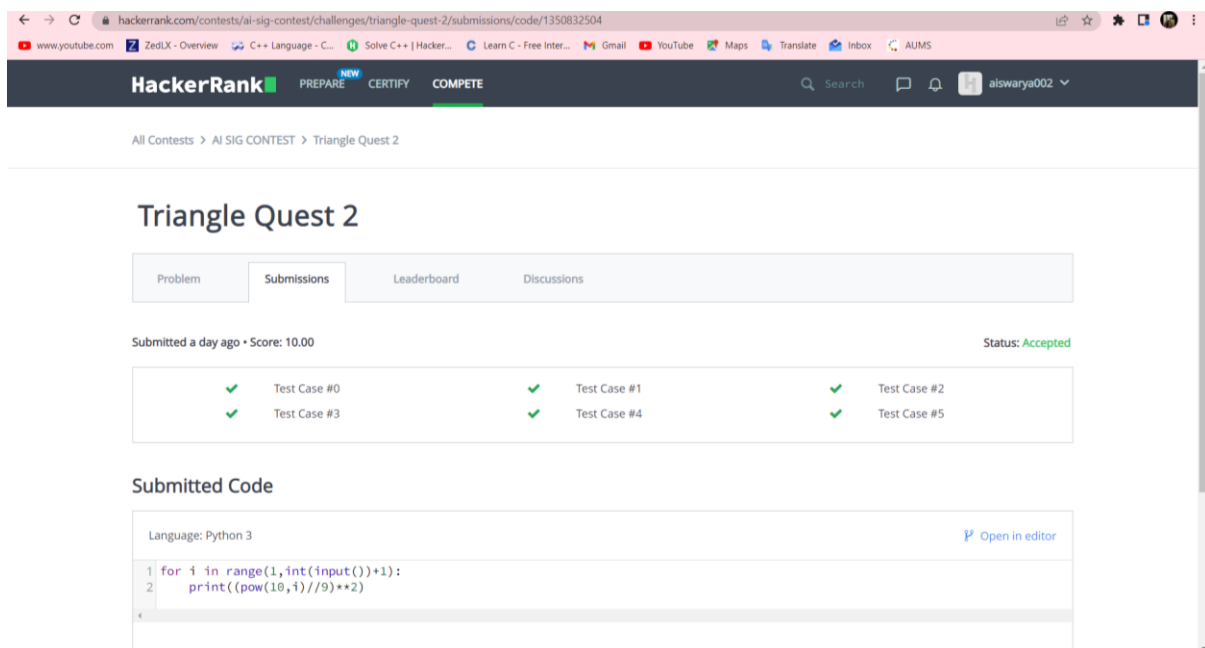
### Code:

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

### Output:



### Acceptance:



## PROBLEM-5

## VALIDATING CREDIT CARD NUMBERS

### Code:

```
import re  
  
n = int(input())
```

```

for i in range(n):
    number = input()
    chac1 = bool(re.match(r"^[456]\d{15}$", number))
    chac2 = bool(re.match(r"^[456]\d{3}\-\d{4}\-\d{4}\-\d{4}$", number))
    number = number.replace("-", "")
    chac3 = bool(re.match(r"(?!.*(\d)(-?\1){3})", number))

    if (chac1 or chac2) and chac3:
        print("Valid")
    else:
        print("Invalid")

```

## Output:

Custom Testcase ⓘ

Compilation Successful

Input (stdin)

6  
4123456789123456  
5123-4567-8912-3456  
61234-567-8912-3456  
4123356789123456  
5133-3367-8912-3456  
5123 - 3567 - 8912 - 3456

Your Output

Valid  
Valid  
Invalid  
Valid  
Invalid  
Invalid

## Acceptance:

hackerrank.com/contests/ai-sig-contest/challenges/validating-credit-card-number/submissions/code/1350898854

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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

Submitted Code

Language: Python 3

1 import re

2 n = int(input())

3 for i in range(n):

4 number = input()

5 chac1 = bool(re.match(r"^[456]\d{15}\$", number))

6 chac2 = bool(re.match(r"^[456]\d{3}\-\d{4}\-\d{4}\-\d{4}\$", number))

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hackerrank.com/contests/ai-sig-contest/challenges

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AI SIG CONTEST

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 Ideal

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: 66.67% Max Score: 10 Difficulty: Medium

Try Again

Current Rank: 1

View your results

Contest ends in 9 days

Current Leaderboard

Compare Progress

Review Submissions