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

Task-1

Certificate

kaggle

CERTIFICATE OF COMPLETION

Aiswaryaaa Satheeshhh

HAS SUCCESSFULLY COMPLETED THE COURSE

Intro to Machine Learning

ON OCTOBER 20, 2022

DAN BECKER, KAGGLE INSTRUCTOR

ALEXIS COOK, HEAD OF KAGGLE LEARN

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)

aabbbccde

Your Output (stdout)

```
b  3
a  2
c  2
```

Expected Output

```
b  3
a  2
c  2
```

Acceptance

HackerRank PREPARE CERTIFY COMPETE   Search   aiswarya002 ∨

All Contests > AI SIG CONTEST > Company Logo

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:

```python
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')
```

```python
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   PREPARE ^{NEW} CERTIFY COMPETE   Q Search   💬 🔔 aiswarya002 ⌄

All Contests > AI SIG CONTEST > Time Delta

Time Delta

Problem	Submissions	Leaderboard	Discussions

Submitted a day ago • Score: 10.00   Status: **Accepted**

✔ Test Case #0	✔ Test Case #1	✔ Test Case #2

Submitted Code

Language: Python 3   🖉 Open in editor

```python
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))
```
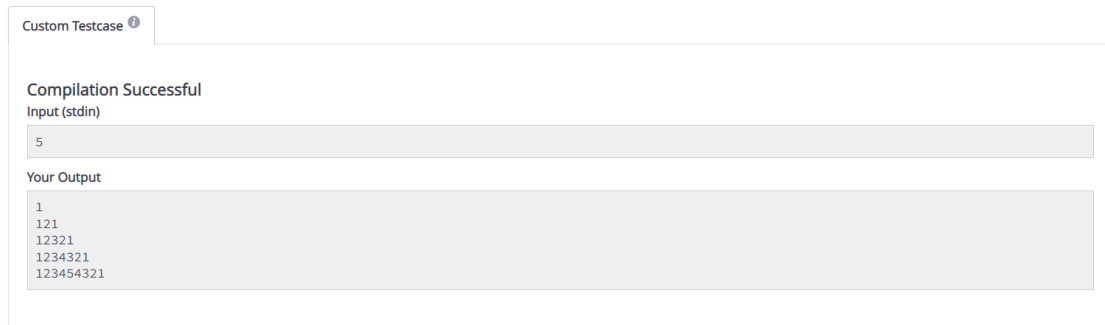
Output:

Custom Testcase ⓘ

Compilation Successful
Input (stdin)

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

Your Output

```
1
```

Acceptance:

PROBLEM-4

TRAINGLE QUEST 2

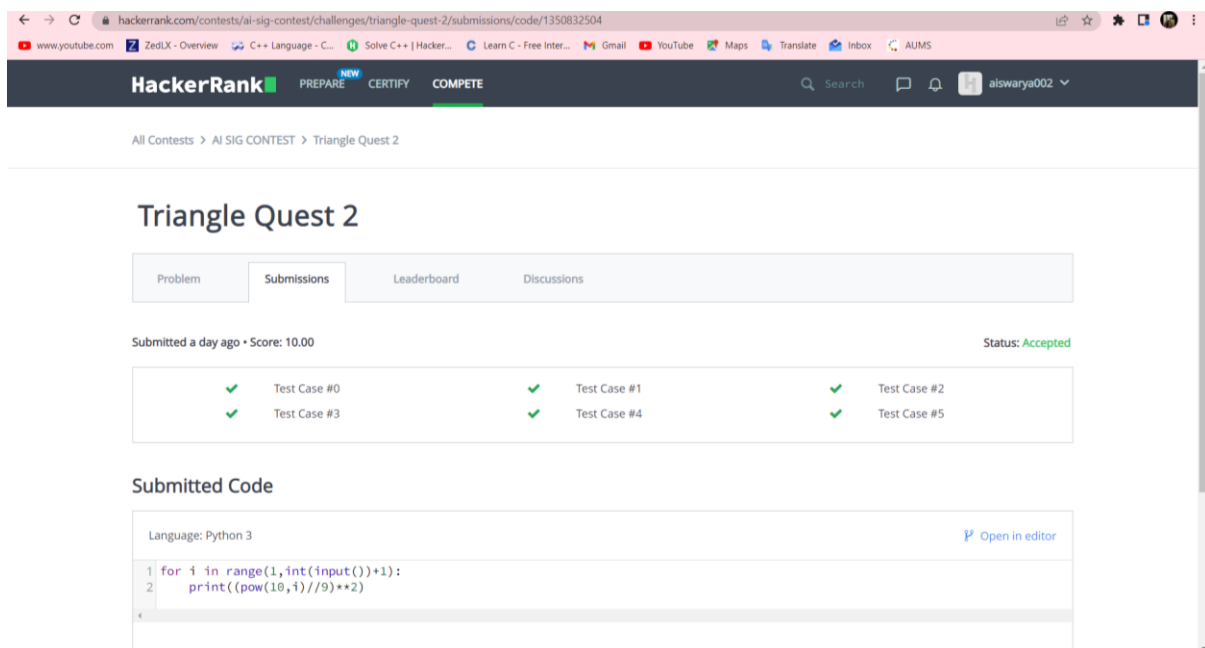## Code:

```
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())
```

```python
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 | PREPARE | CERTIFY | COMPETE

Q Search | aiswarya002 ∨

Validating Credit Card Numbers

| 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

⌥ Open in editor

```python
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))
```