Exercise 1
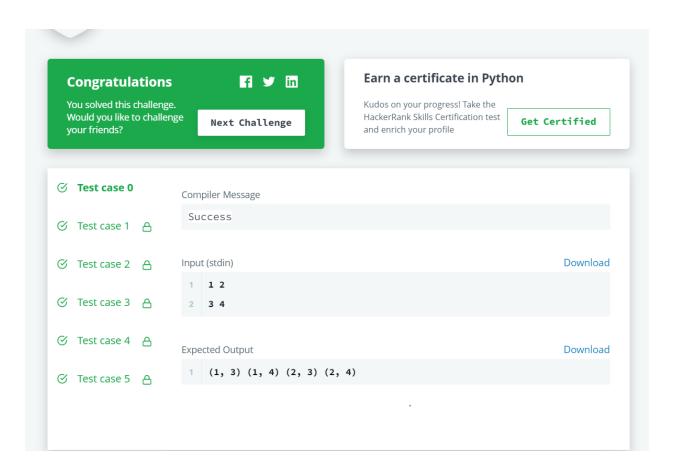
```python
# Enter your code here. Read input from STDIN. Print output to STDOUT
from itertools import product

a = list(map(int, input().split()))
b = list(map(int, input().split()))

print(*product(a, b))
```

Line: 7 Col: 22

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Compiler Message

Success

Input (stdin)   Download

```
1   1 2
2   3 4
```

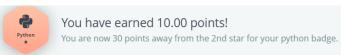Expected Output   Download

```
1   (1, 3) (1, 4) (2, 3) (2, 4)
```

Exercise 2

```python
# Enter your code here. Read input from STDIN. Print output to STDOUT
from itertools import permutations
user_input = input().split()
string = user_input[0]
size = int(user_input[1])

perm =  sorted(permutations (string,size))

for i in perm:
    print("".join(i))
```
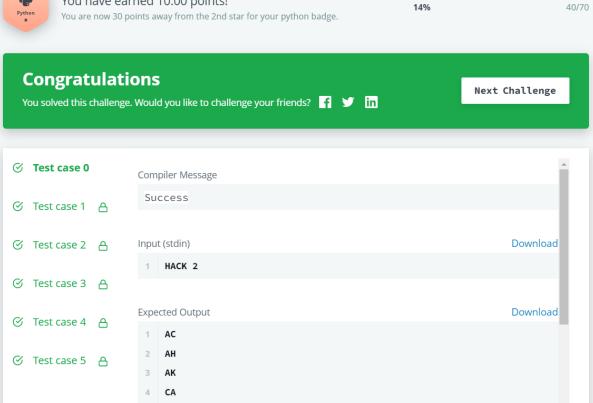
Line: 10 Col: 22

You have earned 10.00 points!
You are now 30 points away from the 2nd star for your python badge.

14%

40/70

Congratulations

You solved this challenge. Would you like to challenge your friends? **f** **t** **in**

Next Challenge

✓ **Test case 0**

✓ Test case 1 🔒

✓ Test case 2 🔒

✓ Test case 3 🔒

✓ Test case 4 🔒

✓ Test case 5 🔒

Compiler Message

Success

Input (stdin)   Download

| 1 | HACK 2 |

Expected Output   Download

1	AC
2	AH
3	AK
4	CA
5	CH

Exercise 3

```python
# Enter your code here. Read input from STDIN. Print output to STDOUT
from itertools import combinations_with_replacement

s,k =input().split()

c=list(combinations_with_replacement(sorted(s),int(k)))

for i in c:
    print("".join(i))
```

You have earned 10.00 points!
You are now 20 points away from the 2nd star for your python badge.

43%

50/70

Congratulations

You solved this challenge. Would you like to challenge your friends? Ⓕ Ⓣ Ⓛ

Next Challenge

✓ **Test case 0**

✓ Test case 1 🔒

✓ Test case 2 🔒

✓ Test case 3 🔒

✓ Test case 4 🔒

✓ Test case 5 🔒

Compiler Message

Success

Input (stdin)   Download

1   HACK 2

Expected Output   Download

1   AA
2   AC
3   AH
4   AK
5   CC