

## Tour De OAAR

### Assignment @ Python

1. Write a Python program to find Hcf( Highest Common Factor )of two numbers using recursion.

INPUT- Two numbers a and b

OUTPUT- HCF of (a,b)

2. Your task is to calculate the number of trailing zeros in the factorial N!

For example,

20!=2432902008176640000 has 4 trailing zeroes

INPUT- An integer n

OUTPUT- No. of trailing zeroes

3. Try solving this

<https://codeforces.com/contest/507/problem/B>

using python.

4. Find output of

```
import numpy as np
arr = np.array([[1, 2], [3, 4]])
a = arr ** 2
print(a)
```

5. Find output of

```
import numpy as np
arr = np.array([1, 2, 3, 4, 5])
mask = arr > 2
print(arr[mask])
```

6. (BONUS)

<https://cses.fi/problemset/task/2165>