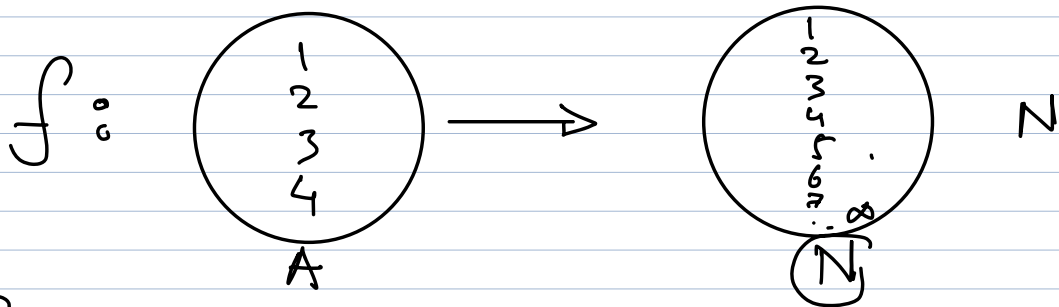
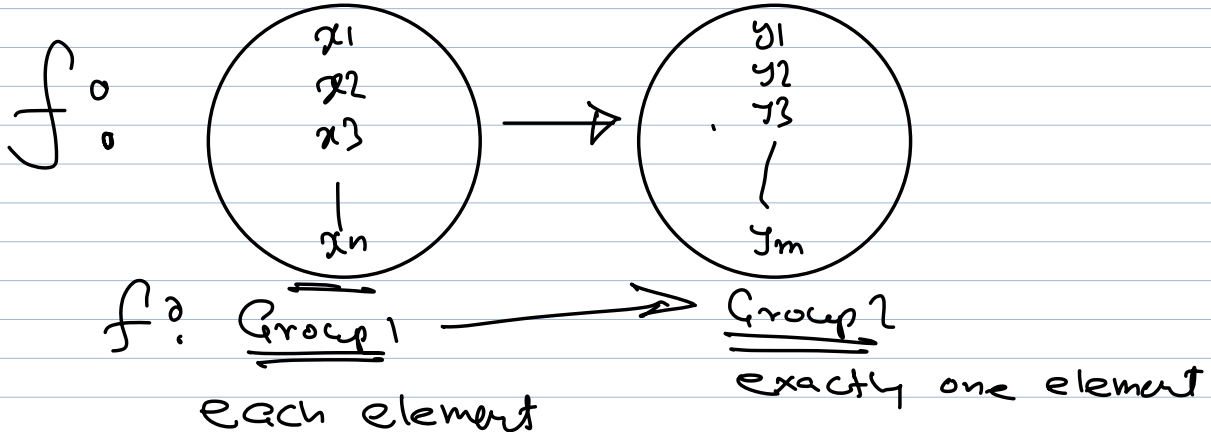


- 101 Zen stories
- Beginners Mind Has Many Possibilities and Expert's mind has few
- Osho -> Zen Master Discourses
- Tich Nath Han

#-----



Set of ordered pairs:

$\{(1, 3), (2, 9), (3, 17), (4, 5992)\}$

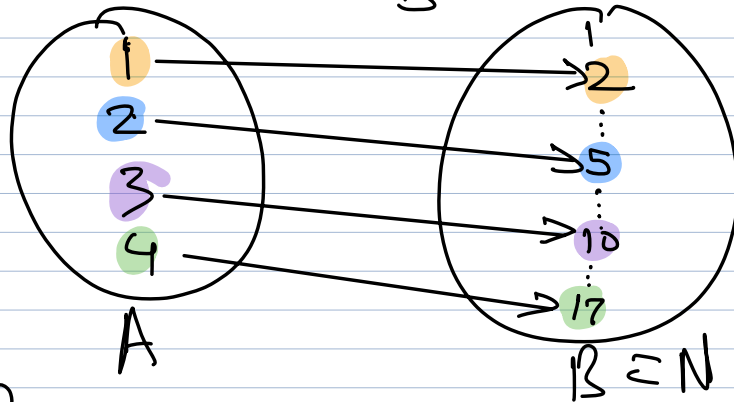
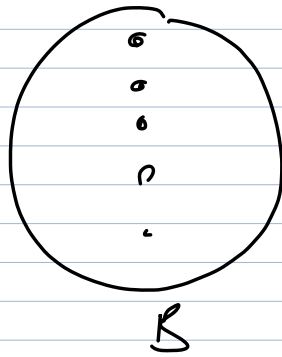
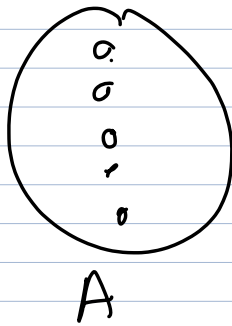
Function notation: $f: A \rightarrow N$

Group = Set

Group member = Element of set

$f: A \rightarrow N$. Group 1 = Domain of function

Group 2: Co-domain of function



$$f: A \rightarrow B$$

$$(\text{element})^2 + 1$$

+1

let n be element in A (= Domain)

then $n^2 + 1$ is its pair in B (= codomain)

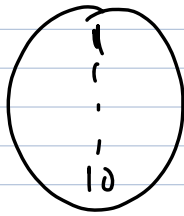
$$(n, f(n))$$

$$\begin{matrix} \uparrow & \uparrow \\ A & B \end{matrix}$$

$$(n, n^2 + 1)$$

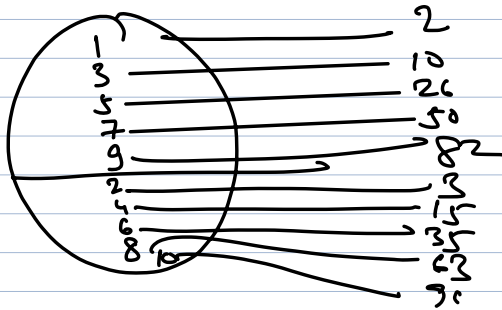
$$f(n) = n^2 + 1$$

$$f(n=4) = 4^2 + 1 = \underline{\underline{17}}$$



$$n^2 + 1$$

$$n^2 - 1$$



$$f(n) = \begin{cases} n^2 - 1 & \text{if } n \text{ is even} \\ n^2 + 1 & \text{if } n \text{ is odd} \end{cases}$$

$$D_f = \{1, \dots, 10\}$$

$$n \times f(n-1) \quad \text{if } \underline{n} \geq 1$$

$$f(n) =$$

$$1$$

$$\text{if } n = 0$$

$$\underline{\underline{f(4)}}$$

$$D_f: N$$

$$4$$

$$\text{Cod}_f: N$$

$$5 \times f(4)$$

$$f(5) =$$

$$5 \times 4 \times f(3)$$

$$\times \frac{11}{f(4)}$$

$$f(5)$$

$$5 \times 4 \times 3 \times f(2)$$

$$\times \frac{f(3)}{f(4)}$$

$$5 \times 4 \times 3 \times 2 \times f(1)$$

$$3 \times f(2)$$

$$4 \times f(3)$$

$$5 \times f(4)$$

$$f(5)$$

$$5 \times 4 \times 3 \times 2 \times 1 \times f(0)$$

$$1 \times 1$$

$$f(1)$$

$$3 \times f(2) = 2 \times 1$$

$$f(3) = 3 \times 2 \times 1$$

$$4 \times f(3)$$

$$4 \times 3 \times 2 \times 1$$

$$5 \times f(4)$$

$$5 \times 4 \times 3 \times 2 \times 1$$

$$f(5) = 120$$

$$n \times f(n) \quad \text{if } n > 0$$

$$f(n) =$$

$$1$$

$$\text{if } n = 0$$

```
def f(n):  
    if n == 0:  
        return 1  
    else:  
        y = n * f(n-1)  
        return y
```

$f(5)$