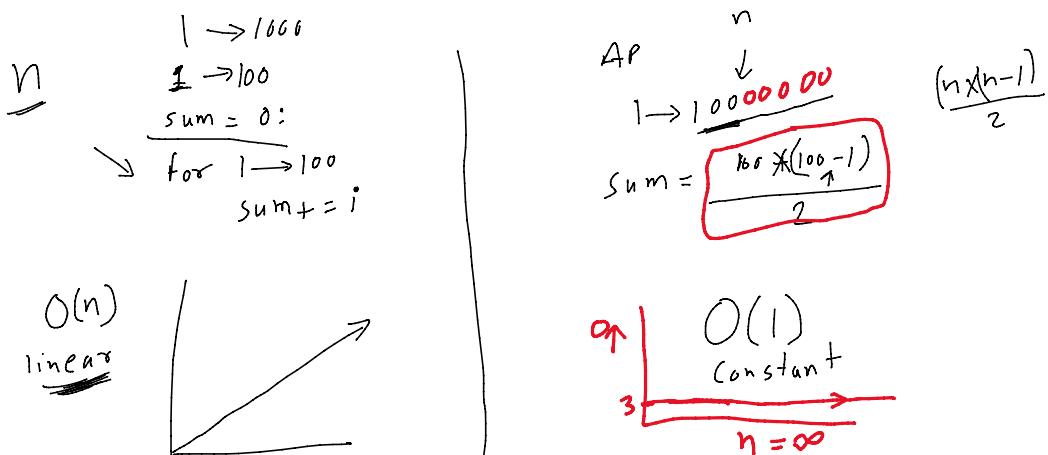
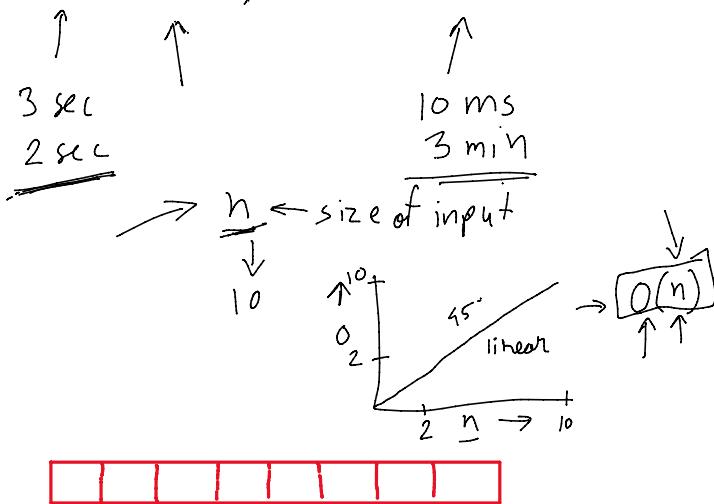
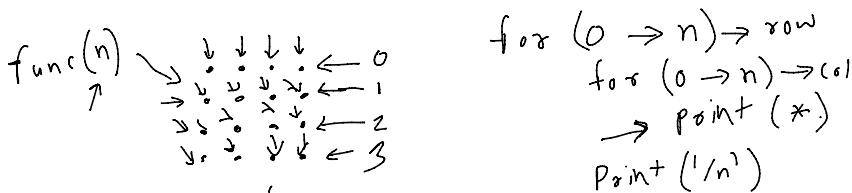


$O(n)$, $O(1)$, $O(n^2)$

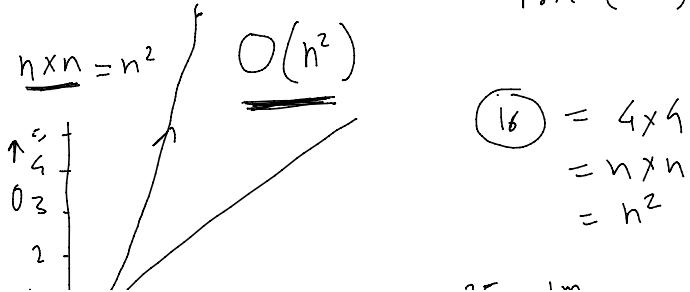
function(), function()

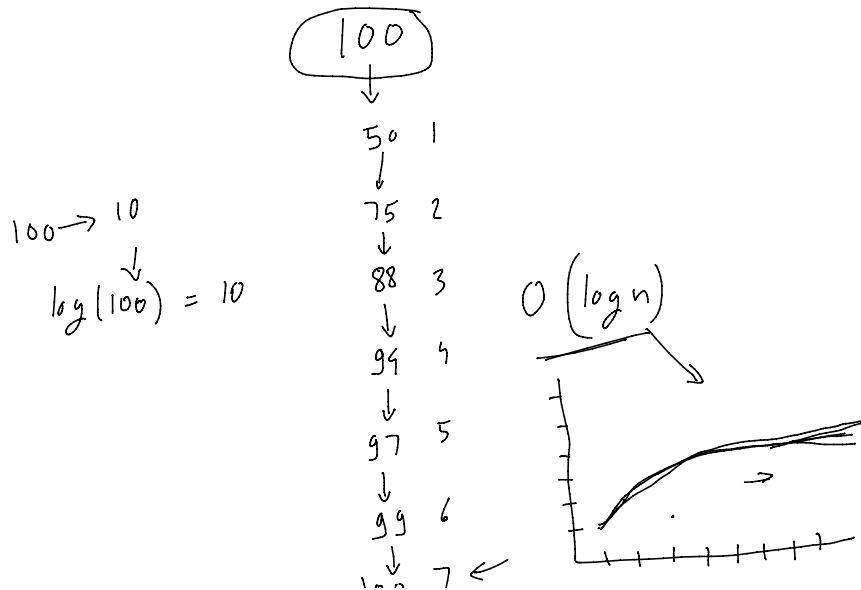
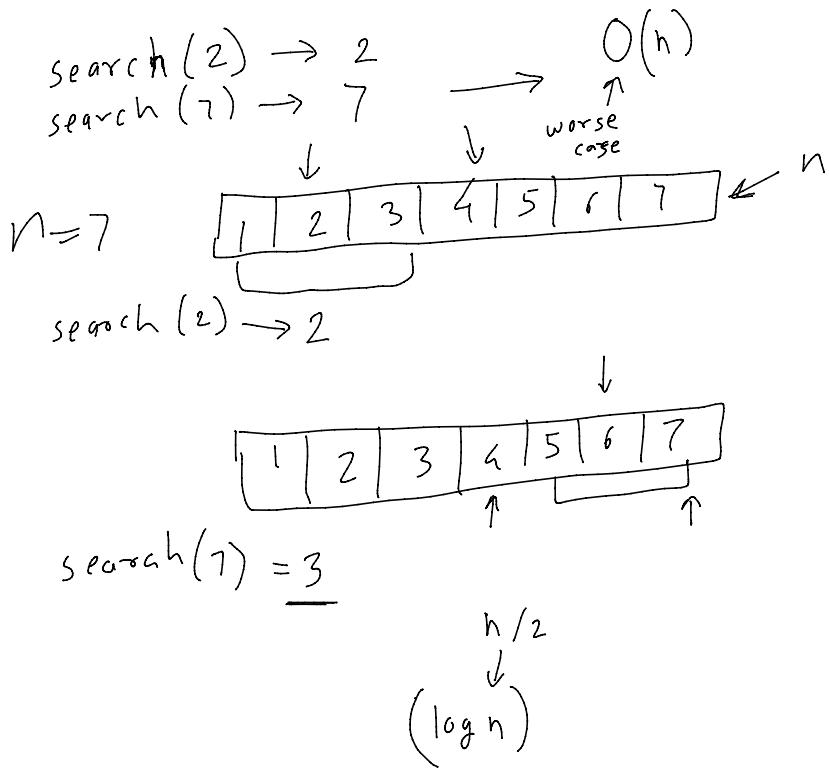
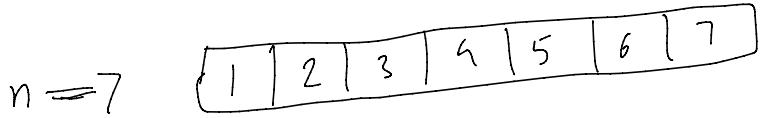
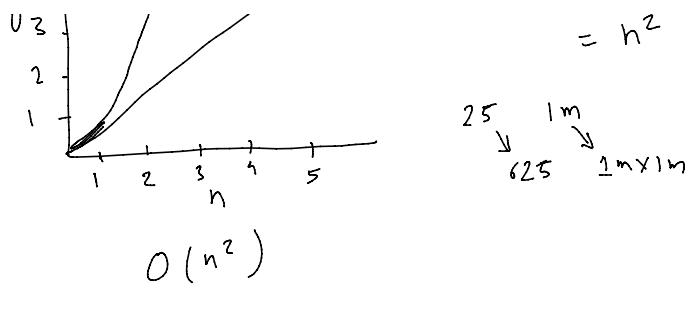


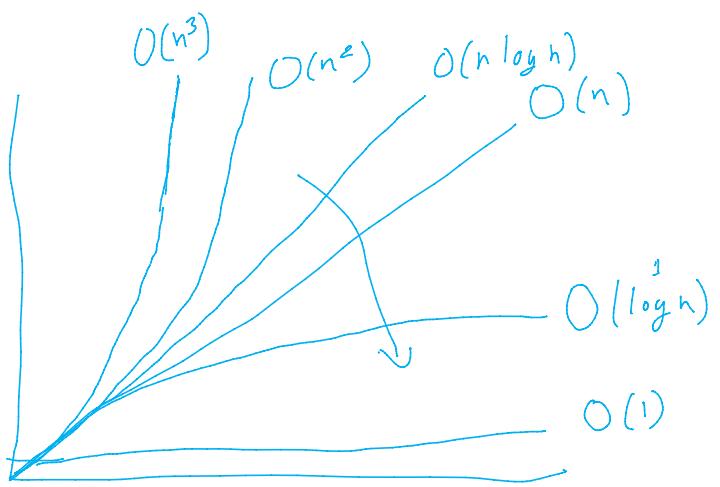
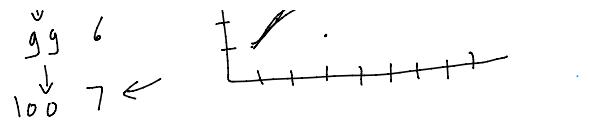
$O(1)$, $O(n)$



for ($0 \rightarrow n$) → row
 for ($0 \rightarrow n$) → col
 \rightarrow print (*)
 $\text{print}(' / n')$



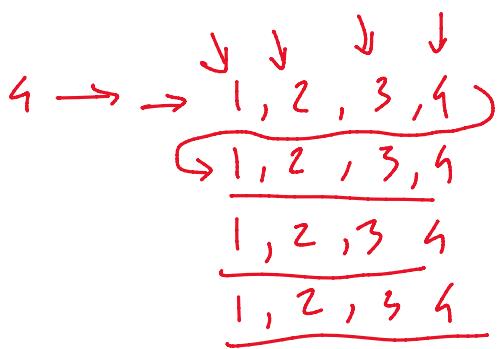




$$O(1) < O(\log n) < O(n) < O(n \log n) < O(n^2) < O(n^3) < O(2^n) < O(n^n)$$

good ←

$i = 1, 2, 3, 4$



$$3 \rightarrow 9$$

$$4 \rightarrow 16$$

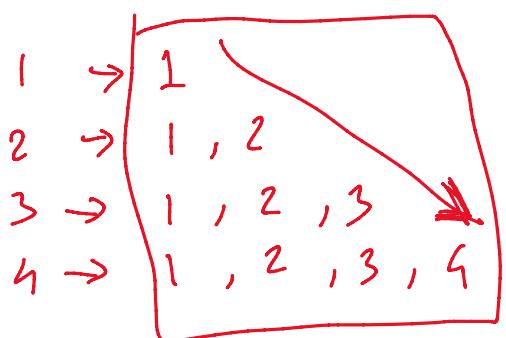
$$5 \rightarrow 25$$

$$n \rightarrow O(n^2)$$

for $i \rightarrow 1, i$
for $j \rightarrow 1, j$
print(j)
print('n')

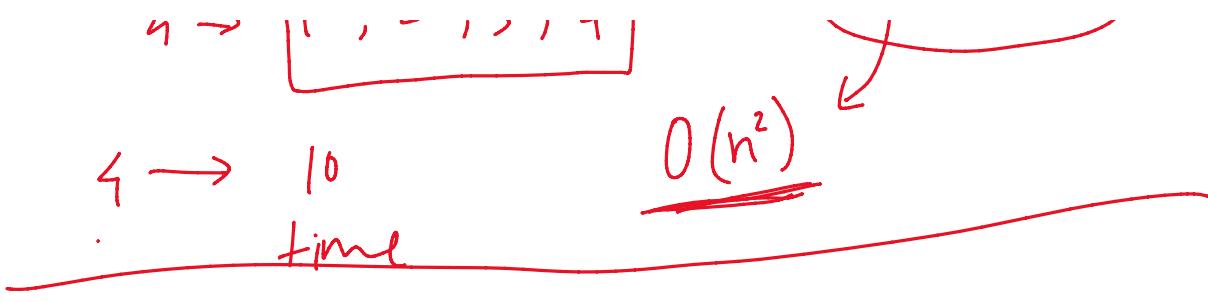


for i in $0 \rightarrow 4$
 for j in $0 \rightarrow i$
 print(j)
 print('n')

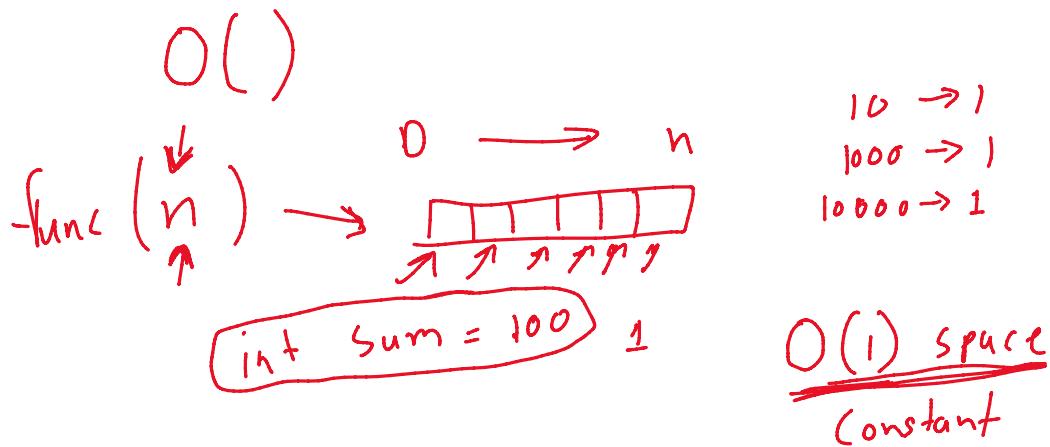
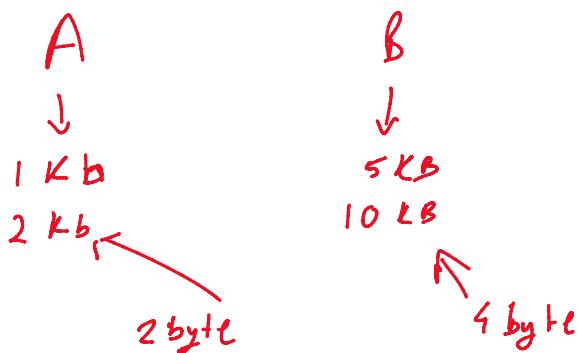


$n^2 + 2$

$\cdot 2$



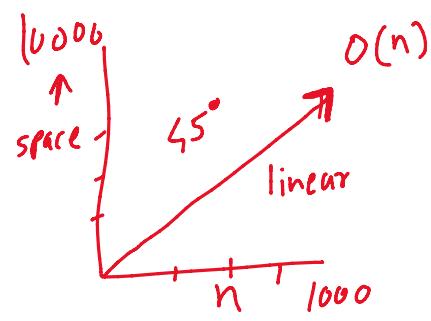
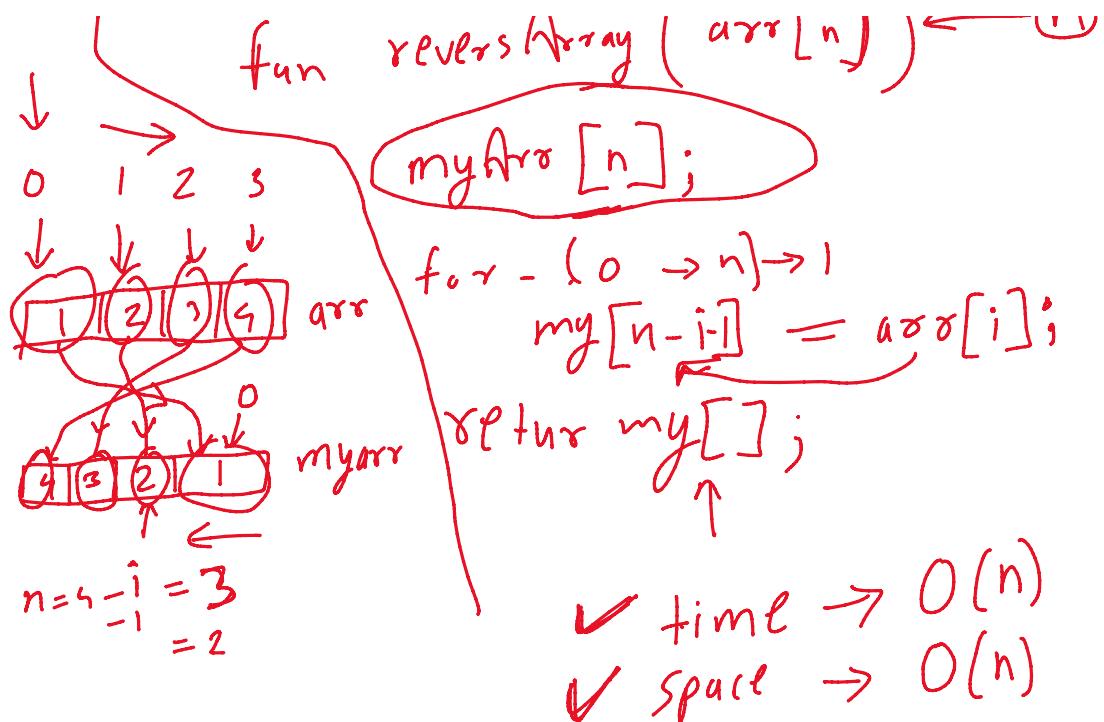
space → RAM consumed



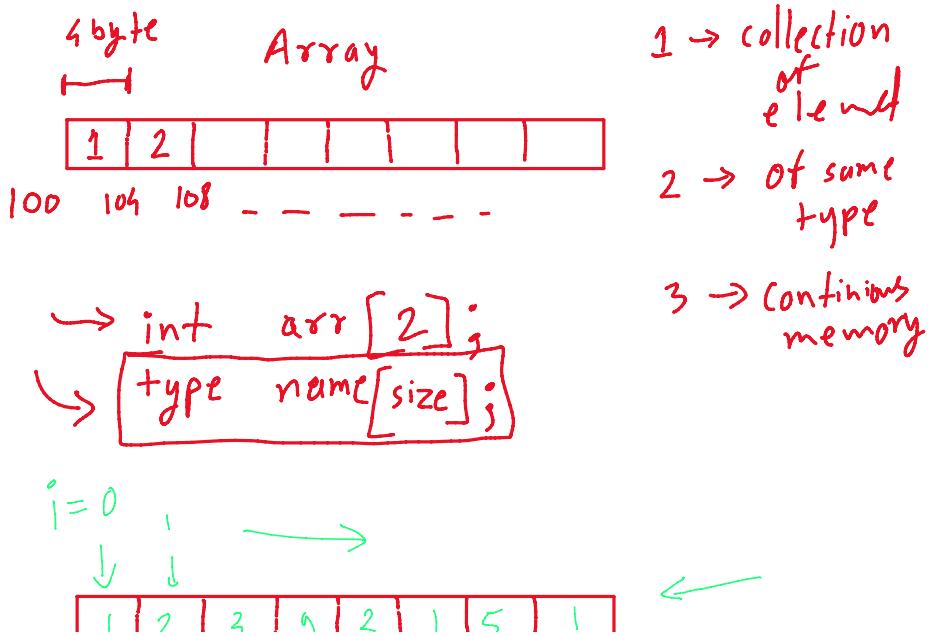
$\text{sum}(a, b)$
 $c = a + b$
 return n

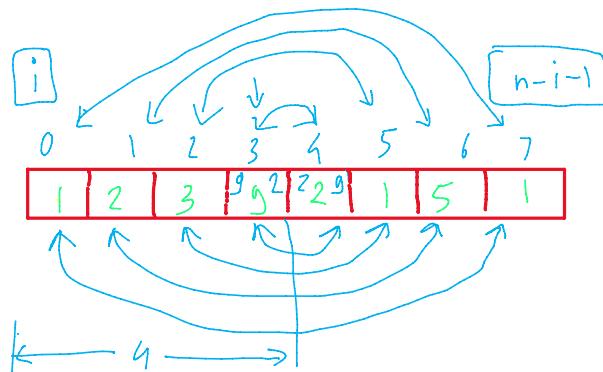
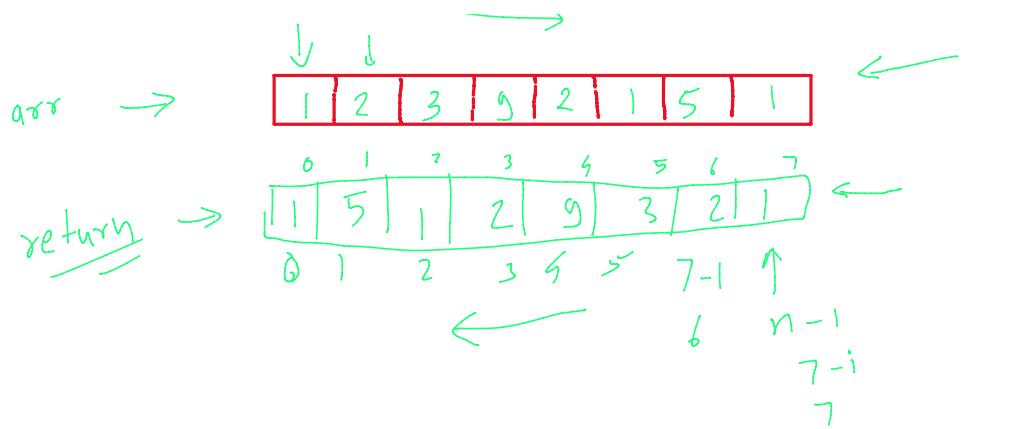
\rightarrow $O(1)$ time
 $O(1)$ space

1. 



Space → no. of mem element
 Time → no. of operations





int a = 1
int b = 2

X a = b;
 b = a;

✓ int temp = a;
 a = b;
 b = temp;

a = 2 , b = 1

n=8
n = n/2

n=3 ↳ 3/2

int = 1(5)
= 1

