

---

---

---

---

---



# Dynamic Programming

i/p  $\rightarrow$   $n = 100$

$\rightarrow 10 \times 10 \rightarrow 1 \rightarrow a_4 = 1$

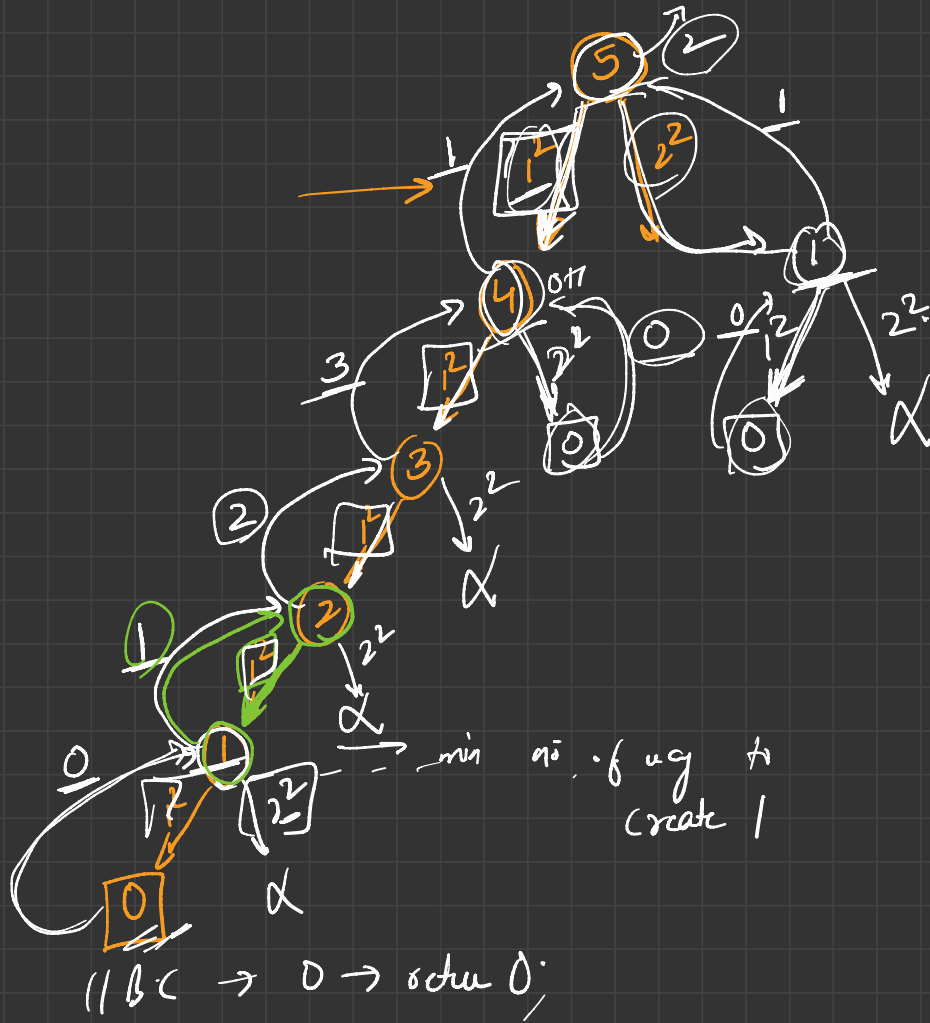
$\rightarrow (5^2 + 5^2 + 5^2 + 5^2) \rightarrow 4$

$\rightarrow \text{---} \rightarrow 6$

$\text{---} \rightarrow 8$

$\text{---} \rightarrow 10$

coin change  
comb. sum



$$1^2 \rightarrow 1$$

$$2^2 \rightarrow 4$$

$$3^2 \rightarrow 9$$

for ( $i=1$ ;  $i \leq n$ ;  
 $i++$ )  
 $i < \text{get}(n)$

5  $\rightarrow$  min perfect  
 square

$$2^2 + 1^2$$

$$1^2 + 2^2$$

$$1^2 + 1^2 + 1^2 + 1^2 + 1^2$$

