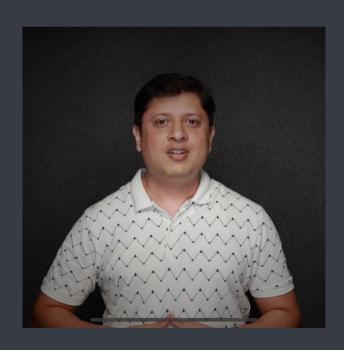
#### C, C++, DSA in depth

#### Doubt class assignment-14



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## Permutation ABCD range Zelements a

Arrange 2 elements out of 4 elements

Permutation = all possible arrangements

$$n_{P} \quad n=4$$

AD BC BD C  
DB DB D  
$$\gamma_{P_r} = \frac{1}{12}$$
  
 $= \frac{4 \times 3 \times 2 \times 1}{2}$ 

Combination ABCD

Select 2 elements out of 4 elements

Combinations = all possible selections

$$n = 4$$

$$n_{Cx} = \frac{4}{12} = \frac{4 \times 3}{2}$$

$$4c_2 = \frac{4 \times 3}{12 \cdot 12} = 6$$

### 36 = 2 × 2 × 3×3

# type modifiers

short?

signed of the unsigned of the

int x; signed int x; 4 bytes

Short int x; short signed int x; 8 bytes

dong int x; long signed int x; 8 bytes

unsigned int x; 4

unsigned int x; 4

unsigned intx, 2 unsigned short int x; 2 unsigned long int x; 8

char x; signed char x; unsigned charx; MSB = -128 to 127 unsigned char sc; 1 byte 0 111 1111 = 127 1 000 0000 = -128 128 = 100000000 23 to 255 -128 = 1000 000 0