

C, C++, DSA in depth

Doubt class assignment 3,4



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```
{ int x;  
  x = sizeof('A')  
  printf("%d", x); → 4  
}
```

```
{ int x;  
  x = sizeof(5.5);  
  printf("%d", x); → 8  
}
```

$$x = 4128$$

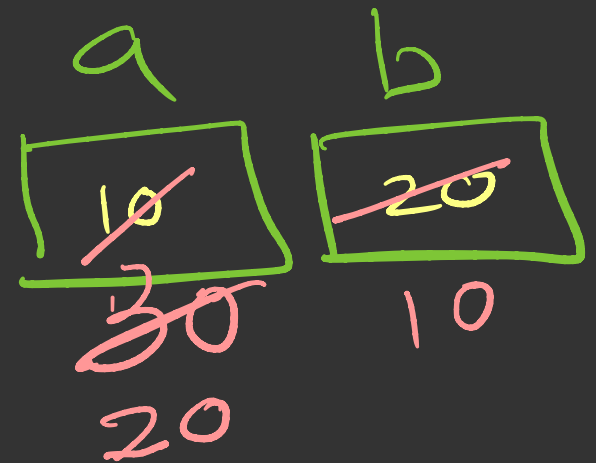
← unit digit

412

$$x/10$$

Swapping

$$\begin{aligned}a &= a + b \\ b &= a - b \\ a &= a - b\end{aligned}$$



$$x = 542$$

$$s = x/100 + x/10\%10 + x\%10$$

5 4 2

char x;

float y;

int a;

double d1;

printf("%d", sizeof(x));

printf("%d", sizeof(y));

printf("%d", sizeof(a));

printf("%d", sizeof(d1));

$$x = 2345$$

$$x = (x / 10 * 10)$$

$$234 * 10 = 2340$$

$$1 \text{ USD} = \text{INR } 84.23$$

$$1 \text{ ₹} = \frac{1}{84.23} \$$$

$$x \text{ ₹} = x * \frac{1}{84.23}$$

$$\frac{x}{84.23}$$

$$\begin{array}{r} x \\ 234 \end{array} \quad 9^a$$

$$234 * 10 + 9$$

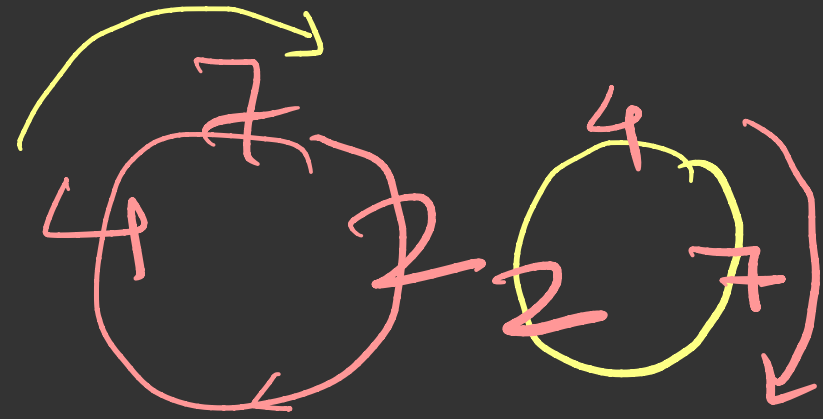
$$\underline{2349}$$

$$(x * 10 + a)$$

$$x = 472$$



$$= 247$$



$$\underbrace{x \% 10 * 100}_{200} + \underbrace{x / 10}_{47} = 247$$

```
printf("%d", x % 10 * 100 + x / 10);
```

8

$$x = 10 > 8 > 4;$$

0

0

$$1 > 4$$

9

$$x = 12 > -2;$$

1

1

$$0 > -2$$

10

$$x = 3 < 0 \& 8 \& 5 > 0;$$

0

0

F

x

0