

```
int n1 = 10 ; int n2 = 20;
```

```
cout (n1);  
cout (n2);
```

$$n_1 = 1020$$

$$n_2 = 2020$$

```
int n2 = 10;
int n3 = 20;
```

$$\begin{aligned} n_1 &= n_2; \\ n_2 &\subset n_1; \end{aligned}$$

```

    swap(n2);
    swap(n2);

```

1120
1120

```
int temp = n2;  
n2 = n2;  
n2 = temp;
```

n2 = 1020
n2 = 2010
temp = 10

⑤ Short-circuit

```

if(x2 <= x2 && x2 <= x2 && x2 <= x2) {
    cout << "All well";
}
else {
    cout << "No well";
}

```

```
if(x2 || x3 || x4) {
    sort('Some well');
} else {
    sort('Nothing well');
}
```

- In pre-increment, value is incremented by 1 and then assigned.
- In post-increment, value is assigned and then incremented by 1.

Logical operators:

- AND operator ($\&$)
- OR operator ($\|$)

Q. age, name. If age > 18 .. Take license. If age ≤ 18 .. no license
 note in python, Take license

Q. Leap year. \rightarrow Q. Wier years is/p

Feb \rightarrow 28 days
Leap year Feb \rightarrow 29 days.

2020 \rightarrow It's a leap year.
19 \rightarrow Not a leap year.

2022 \rightarrow Not a leap year.

1900 \rightarrow Not a leap year.
800 \rightarrow Not a leap year.

$200 \rightarrow \alpha$
 $404 \rightarrow \checkmark$
 $900 \rightarrow \alpha$
 $2000 \rightarrow \checkmark$

Year = 2040

$$\begin{array}{r} 501 \\ - 2040 \\ \hline 4 \end{array} \rightarrow \text{quintic}$$

$$\begin{array}{r} 502 \\ 4 \overline{) 2040} \\ \underline{20} \\ 40 \\ \underline{40} \\ 0 \end{array}$$
$$\begin{array}{r} 50 \\ 4 \\ \hline 200 \end{array}$$

506
9) 5024
 54
 —
 24
 —
 24
 —
 0

 $\therefore 2$
$$\begin{array}{r} 5 \\ 5 \overline{) 25} \\ \underline{25} \\ 0 \end{array}$$
$$\begin{array}{r} 9 \\ 3 \overline{) 27} \\ \underline{-27} \\ 0 \end{array}$$
$$\begin{array}{r} 6 \\ 100 \overline{) 629} \\ \underline{600} \\ 29 \end{array}$$
$$629 \div 100 = 29$$
$$9 + 29 =$$
$$\begin{array}{r} 2 \\ 10 \overline{) 29} \\ \underline{20} \\ 9 \end{array}$$
$$629 \cdot / \cdot 10 \rightarrow 9$$
$$629 \text{ \textperthousand } 100 \rightarrow 29$$
$$\begin{array}{r} 10 \overline{) 7239} \\ \underline{- 7230} \\ 9 \end{array}$$

Q: Share system amongst 2:
ip: n1:10 ; n2:20 ; n3:5
op: 10
ip: n1:50 ; n2:10 ; n3:
op:25.

$\begin{array}{ccc} \text{Fe} & \text{H} & \text{S} \\ \uparrow & \uparrow & \uparrow \\ 0 & 5 & 160 \end{array}$

```

if (n1 > n2 && n2 < n3) || (n2 > n3 && n3 < n1) {
    sort(n1);
} else if (-1 == 1) {
} else {
    sort(n3);
}

```

Q: Sum of last 2 digit of an num. given.
 int num = 39235.
 q/p: 8
 num = 32+46
 q/p: 10

സംഗ്രഹം: 8000
 മറ്റ് വകുപ്പ്: 10000

num % 100 \rightarrow ? \rightarrow 92

Handwritten diagram showing the conversion of 729 from base 10 to base 3. It includes a division table for 729 by 3, with remainders 0, 2, and 2, and a final result of 729 in base 3.

729	3	243	0
243	3	81	2
81	3	27	2
27	3	9	0
9	3	3	0
3	3	1	0
1	3	0	1

Final result: 729 (base 3)

$(629)_{10} \rightarrow 600 + 20 + 9$
 $600 + 20 + 9$

62%