

int a=10; int b=20;

int c = a + b;

cout (c);

int a=10;
 int b=-a;

cout (b);

int a=-10;
 int b=-a;

cout (b);

Operators

1) Arithmetic

2) Assignment

3) Relational

4) Unary: i) - (minus operator)

ii) ! (not operator)

5) Increment

++ → pre-increment operator

++ → pre-increment operator

SSD

SSD

Q. Greatest amongst a:

n1=10 n2=20

if (n1 > n2)

cout (n1);

else

cout (n2);

Q. Greatest amongst d:

n1=10 n2=20 n3=5

if (n1 > n2)

if (n2 > n3)

cout (n1);

else if

cout (n2);

else if (n1 > n3)

cout (n1);

else

cout (n3);

Q. Greatest amongst b:

n1=10; n2=20;

n3=5; n4=25;

n5=30; n6=2;

0/p: 30

Binary

Binary number system:

(321)₁₀

Binary number system:

$$\begin{aligned} 3 \times 10^2 &= 300 + 10 + 1 \\ 2 \times 10^1 &= 20 + 10 \\ 1 \times 10^0 &= 1 \end{aligned}$$

Binary

$2^0 = 1$

$2^1 = 2$

$2^2 = 4$

$2^3 = 8$

$2^4 = 16$

$2^5 = 32$

$2^6 = 64$

$2^7 = 128$

$2^8 = 256$

$2^9 = 512$

$2^{10} = 1024$

$629 = 600 + 20 + 9$
 $600 = 10^2 \times 6$
 $20 = 10^1 \times 2$
 $9 = 10^0 \times 9$
 Decimal

Q. Convert the binary number to decimal

Ex: num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

num = 1024

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num = 1024

$(1296)_{10} \Rightarrow 1000 + 200 + 20 + 10 + 6$

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

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$$\begin{array}{r} 62 \\ 10 \overline{) 629} \\ \underline{620} \\ 9 \end{array}$$

$$\begin{array}{r} 3 \\ 10 \overline{) 37} \\ \underline{30} \\ 7 \end{array}$$

$$\begin{array}{r} 3 \\ 10 \overline{) 35} \\ \underline{30} \\ 5 \end{array}$$

$$\begin{array}{r} 12 \\ 10 \overline{) 129} \\ \underline{120} \\ 9 \end{array}$$

num 10 divide - remainder

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