| 00 | 0 | 0 | 0 | $n$ | $b i t_{5}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 0 | 1 | 0 | 0 | 1 | $n$ |
| 1 | 0 | 0 | 1 | 0 | represent |
| 1 | 1 | 0 | 1 | 1 | $2^{n}$ |
|  | 1 | 0 | 0 | items |  |
|  | 1 | 0 | 1 |  |  |
|  |  | 1 | 0 |  |  |
|  | 1 | 1 | 1 |  |  |



Binary

$$
\begin{aligned}
& 0^{6}{ }^{5} 2^{4} 2^{3} 2^{2} 2^{1}-2^{0} \\
& 1011011 \\
& 1 \times 2^{0}=1 \\
& 1 \times 2^{1}=2 \\
& 0 \times 2^{2}=0 \\
& 1 \times 2^{3}=8 \\
& 1 \times 2^{4}=16 \\
& 0 \times 2^{5}=6 \\
& 1 \times 2^{6}=\frac{64}{91}
\end{aligned}
$$

$$
10011
$$

Dec 19

$$
\begin{array}{ccc}
26 / 2 & & \\
Q & R & \\
13 / 2 & 0 & 11^{2} 10 \\
6 / 2 & 1 & \\
3 / 2 & 0 & \\
1 / 2 & 1 & \\
0 & 1 &
\end{array}
$$

Octal

| 0 | 000 | 755 |  |
| :--- | :--- | :--- | :--- |
| 1 | 001 | 111101101 |  |
| 2 | 010 |  |  |
| 3 | 011 |  |  |
| 4 | 100 | 100 | 010 |
| 5 | 101 | 11 |  |
| 6 | 110 | 4 | 2 |



$$
\begin{array}{rr}
256 & 007 \\
\begin{array}{rr}
200 & 200 \\
0 \times 964
\end{array} & \begin{array}{l}
2 / 300
\end{array}
\end{array}
$$

chmod perm file

$$
\begin{gathered}
\text { perm Ti ld } \\
\qquad \begin{array}{l}
u+w \\
a+x \\
a-w
\end{array}
\end{gathered}
$$

public dir rwxr-xt-x

$$
\underbrace{111101101}_{7} \underbrace{101}_{5}
$$

chmod 755 dir
public file $\frac{r w-r-r-r}{644}$


