

Binary

Binary numbers are numbers represented in base 2.

For example, 23 can be written as 10111 in binary form.

To convert decimal $oldsymbol{N}$ to binary we can do it as

```
\label{eq:normalized} $n=((N)?floor(\ \log 10(N)/\log 10(2)\ ) + 1:0); \ //calculate \ number \ of \ digits \ in advance \ floor(\log 2(N)) + 1 \\ vector < int> bin(n); \\ i = n-1; \\ while(N!=0) \{ \\ bin[i]=N\%2; \\ N/=2; \\ i--; \\ \}
```

To convert binary to decimal

```
string s = "1011";
n = s.length()
int N = 0;
while (n>0) {
   if (s[s.length()-n]=='1') N += pow(2,n-1);
   n--;
}
```

Note:

 Techniques suggested above can be use to convert decimal number system to any other number system or vice - versa.

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