## I's complement.

tis complement of a binary number is another binary number Obtained by toggling all bits in it is exansforming the obit to 1 and the 1 bit to 0. In the 1's complement format, the positive numbers remain unchanged. The negative numbers are obtained by taking the 1's complement of positive counter parts.

for example t9 while represented as 00001001 in eight bit notation and 9 will be represented as 11110110, which is the 1's complement of 00001001.

## Examples

\* 1's complement of 'olll' is "1000"

\* 1's complement of '1100' is '0011"

## 2's conflerent

2's complement a binary number is 4 added to the to the I's conflictent of the binary number. In the 2's conflement representation of binary number, the MSB represents the sign with a 'o' used for Plus sign and a 1' used for a rinus sign. The remaining bits are used for representing Magnitude, positive magnitudes are represented in the same way as in the are represented in case of sign-bit or 1's complement representation Negative magnitudes are represented by the 2's complement of their positive counter parts.

## Examples:

\* 2's complement of "oll" is "1001".

\* 2's complement of '1100' is "0100"