

UCA

C coding

- $n \text{ AND } (-n) == n$, then the number is power of 2
- number of numbers divisible by x from 1 to n = $(n-1)/x$
- $\text{sign}(x+(\sim y+1))$ will tell wether value is same or less or greater without using if-else or $<, >, ==$.
- `sign(int){ return (x>>31)|(!(!x)); }`