

***** OUTPUT *****

Enter a number no larger than: 4.294967296E9

1

Enter a number no larger than: 4.294967296E9

3

Array to be created of size: 3 to hold decimals

Array to be created of size: 3 to hold decimals in binary form

The decimal number is: 1

```
*** This program will convert decimal 1 into binary
```

Decimal is: 1

[illegible][illegible]

The decimal number is: 2

```
*** This program will convert decimal 2 into binary
```

Decimal is: 2

[illegible][illegible]

The decimal number is: 3

```
*** This program will convert decimal 3 into binary
```

Decimal is: 3

[illegible][illegible]

Processing bit:0

0 bit found in column

Moving onto bit: 1

Processing bit: 1

0 bit found in column

Moving onto bit: 2

Processing bit: 2

0 bit found in column

Moving onto bit: 3

Processing bit 3

0 bit found in column

Moving onto bit: 4

Processing 4 bit

0 bit found in column

Moving onto bit: 5

Processing 5 bit

0 bit found in column

Moving onto bit: 6

Processing 6 bit

0 bit found in column

Moving onto bit: 7

Processing 7 bit

0 bit found in column

Moving onto bit: 8

Processing 8 bit
0 bit found in column
Moving onto bit: 9
Processing 9 bit
0 bit found in column
Moving onto bit: 10
Processing 10 bit
0 bit found in column
Moving onto bit: 11
Processing 11 bit
0 bit found in column
Moving onto bit: 12
Processing 12 bit
0 bit found in column
Moving onto bit: 13
Processing 13 bit
0 bit found in column
Moving onto bit: 14
Processing 14 bit
0 bit found in column
Moving onto bit: 15
Processing 15 bit
0 bit found in column
Moving onto bit: 16
Processing 16 bit
0 bit found in column
Moving onto bit: 17
Processing 17 bit
0 bit found in column

Moving onto bit: 18
Processing 18 bit
0 bit found in column
Moving onto bit: 19
Processing 19 bit
0 bit found in column
Moving onto bit: 20
Processing 20 bit
0 bit found in column
Moving onto bit: 21
Processing 21 bit
0 bit found in column
Moving onto bit: 22
Processing 22 bit
0 bit found in column
Moving onto bit: 23
Processing 23 bit
0 bit found in column
Moving onto bit: 24
Processing 24 bit
0 bit found in column
Moving onto bit: 25
Processing 25 bit
0 bit found in column
Moving onto bit: 26
Processing 26 bit
0 bit found in column
Moving onto bit: 27
Processing 27 bit

0 bit found in column

Moving onto bit: 28

Processing 28 bit

0 bit found in column

Moving onto bit: 29

Processing 29 bit

0 bit found in column

Moving onto bit: 30

Processing 30 bit

0 bit found in column

Moving onto bit: 31

Processing 31 bit

All 1s found in column

0 bit found in column

This is bitwise And of the selected range of decimals:

[0,0]

***** ANALYSIS *****

Looking at the decimals, there isn't a single column where all 1s line up, so a bitwise AND will create all 0's

Decimal is: 1

[illegible]

Decimal is: 2

[illegible]

Decimal is: 3

[illegible]

***** OUTPUT *****

The decimal number is: 50

```
*** This program will convert decimal 50 into binary
```

Decimal is: 50

[illegible][illegible]

The decimal number is: 51

```
*** This program will convert decimal 51 into binary
```

Decimal is: 51

[illegible][illegible]

The decimal number is: 52

*** This program will convert decimal 52 into binary

Decimal is: 52

The binary version is : [0, 1, 1, 0, 1, 0, 0]

The binary in array is: [0, 1, 1, 0, 1, 0, 0]

The decimal number is: 53

*** This program will convert decimal 53 into binary

Decimal is: 53

The binary version is : [0, 1, 1, 0, 1, 0, 1]

The binary in array is: [0, 1, 1, 0, 1, 0, 1]

The decimal number is: 54

*** This program will convert decimal 54 into binary

Decimal is: 54

The binary version is : [0, 1, 1, 0, 1, 1, 0]

The binary in array is: [0, 1, 1, 0, 1, 1, 0]

The decimal number is: 55

*** This program will convert decimal 55 into binary

Decimal is: 55

The binary version is : [0, 1, 1, 0, 1, 1, 1]

The binary in array is: [0, 1, 1, 0, 1, 1, 1]

The decimal number is: 56

*** This program will convert decimal 56 into binary

Decimal is: 56

[illegible][illegible]

The decimal number is: 57

*** This program will convert decimal 57 into binary

Decimal is: 57

[illegible][illegible]

The decimal number is: 58

```
*** This program will convert decimal 58 into binary
```

Decimal is: 58

[illegible][illegible]

The decimal number is: 59

*** This program will convert decimal 59 into binary

Decimal is: 59

[illegible][illegible]


```
The decimal number is: 60
*** This program will convert decimal 60 into binary
Decimal is: 60
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 0]
The binary in array is: [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 0]
```

```
This is bitwise And of the selected range of decimals:
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0]
```

***** ANALYSIS *****

```
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 1, 0]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 1, 1]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 1, 0, 0]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 1, 0, 1]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 1, 1, 0]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 1, 1, 1]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 1]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 1, 0]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 1, 1]
The binary version is : [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 0]
```

It can be seen the analysis is the same as displayed through the code output...

*** CODE (CONSISTENT WITH OUTPUT ABOVE) ***

See attachment..