

# Consecutive Set Bits



Given a number N, find the max number of consecutive set bits in the number.

## Input Format

First line of input contains T - number of test cases. Its followed by T lines, each containing a single number N.

## Constraints

$1 \leq T \leq 10000$

$0 \leq N \leq 10^{18}$

## Output Format

For each test case, print the max number of consecutive set bits, separated by newline.

## Sample Input 0

```
3
5
15
13
```

## Sample Output 0

```
1
4
2
```

## Explanation 0

Test Case 1

Binary Representation of 5: 101

Maximum Consecutive Set Bits: 1

Test Case 2

Binary Representation of 15: 1111

Maximum Consecutive Set Bits: 4

Test Case 3

Binary Representation of 13: 1101

Maximum Consecutive Set Bits: 2