

# Goals

You will be given  $M$  values. Each value is an integer  $N$ . You must print the next highest odd number unless  $N$  is already odd then print  $N$

## Input

**Line 1:** An integer  $M$  for the number of integer values that follow.

**Next  $M$  Lines:**  $M$  number of integer values.

## Output

**$M$  Lines:**  $M$  integers that if integer  $N$  at line  $M$  of input is odd then print  $N$  otherwise print the next highest odd integer.

## Constraint

$$1 \leq M \leq 100$$

$$-10000 \leq N \leq 10000$$

## Example

### Input

10

-64

71

-98

-60

-18

41

88

-2

-24

63

## Output

-63

71

-97

-59

-17

41

89

-1

-23

63