## First power of two                                          X19753_en

Write a program that given a sequence of non-negative integers, it writes the position of the first power of two number in the sequence. If the sequence has no powers of two, zero will be written on the output. First sequence number is placed at position one.
The program has to document, use and code the function:

```
bool is_power_2(int n)
```

that given a non-negative number as argument, the result points out whether the number is a power of two.
**Exam score:** 3.000000 **Automatic part:** 40.000000%

### Input

A sequence of non-negative integers. The mark -1 appears just after the sequence.

### Output

The position of the first power of two in the sequence. If there are no powers of two the output will be zero.

**Sample input 1**
```
34 289 90 16 92 99 2 -1
```

**Sample output 1**
```
4
```

**Sample input 2**
```
3 6 7 9 12 14 15   -1
```

**Sample output 2**
```
0
```

**Sample input 3**
```
0 7 6 14 12 1 -1
```

**Sample output 3**
```
6
```

### Problem information

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