# Telerik Software Academy 2011 / 2012 – C# Fundamentals Part 1 – Test Exam

## Problem 4 – Odd Number

You are given a list of **N** integer numbers all but one of which appears an even number of times.

Write a program to find the one integer which appears an **odd number of times**.

### Input

The input data is being read from the console.

The number **N** is written on the first input line.

On each of the following **N** lines there is one integer number written – the consequent number from the given list of numbers.

The input data will always be valid and in the format described. There is no need to check it explicitly.

### Output

The output data must be printed on the console.

On the only output line you must print the integer from the list which appears an odd number of times.

### Constraints

* **N** will be positive odd integer number between 1 and 99 999, inclusive.
* All of the numbers in the list will be integer numbers between -9 223 372 036 854 775 808  
  and 9 223 372 036 854 775 807, inclusive.
* Always only one answer will exists and will be unambiguous.
* Allowed working time for your program: 0.25 seconds.
* Allowed memory: 16 MB.

### Examples

|  |  |
| --- | --- |
| **Input Examples** | **Output Examples** |
| 1  2 | 2 |
| 3  2  -1  2 | -1 |
| 9  -1  0  1  2  3  2  1  0  -1 | 3 |
| 13  -1  7  7  -9223372036854775808  7  -9223372036854775808  -3  7  0  -1  7  0  -3 | 7 |