

Court is in session. We got a group of witnesses who have all taken an oath to tell the truth. The prosecutor is pointing at the defendants one by one and asking each witnesses a simple question - "guilty or not?". The witnesses are allowed to respond in one of the following three ways:

- I am sure he/she is guilty.
- I am sure he/she is innocent.
- I have no idea.

The prosecutor has a hunch that one of the witnesses might not be telling the truth so she decides to cross-check all of their testimonies and see if the information gathered is consistent, i.e. there are no two witnesses `A` and `B` and a defendant `C` such that `A` says `C` is guilty while `B` says `C` is innocent.

Example

- For

```
evidences = [[ 0, 1, 0, 1],
              [-1, 1, 0, 0],
              [-1, 0, 0, 1]]
```

the output should be

```
isInformationConsistent(evidences) = true ;
```

- For

```
evidences = [[ 1, 0],
              [-1, 0],
              [ 1, 1],
              [ 1, 1]]
```

the output should be

```
isInformationConsistent(evidences) = false .
```

Input/Output

- [execution time limit] 4 seconds (js)
- [input] array.array.integer evidences

2-dimensional array of integers representing the set of testimonials. `evidences[i][j]` is the testimonial of the `ith` witness on the `jth` defendant. `-1` means "innocent", `0` means "no idea", and `1` means "guilty".

Guaranteed constraints:

```
2 ≤ evidences.length ≤ 5 ,
2 ≤ evidences[0].length ≤ 10 ,
evidences[i].length = evidences[j].length ,
-1 ≤ evidences[i][j] ≤ 1 .
```

- [output] boolean

`true` if the evidence is consistent, `false` otherwise.

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
  console.log("This prints to the console when you Run Tests");
  return "Hello, " + name;
}
```