

## 379. Design Phone Directory

**Medium** 156 261 Add to List Share

Design a Phone Directory which supports the following operations:

1. `get` : Provide a number which is not assigned to anyone.
2. `check` : Check if a number is available or not.
3. `release` : Recycle or release a number.

### Example:

```
// Init a phone directory containing a total of 3 numbers: 0, 1, and 2.
PhoneDirectory directory = new PhoneDirectory(3);

// It can return any available phone number. Here we assume it returns 0.
directory.get();

// Assume it returns 1.
directory.get();

// The number 2 is available, so return true.
directory.check(2);

// It returns 2, the only number that is left.
directory.get();

// The number 2 is no longer available, so return false.
directory.check(2);

// Release number 2 back to the pool.
directory.release(2);

// Number 2 is available again, return true.
directory.check(2);
```

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