SBCM Lab 4 Єгоров ФІ-03

```
ELEM1
[
  1, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1,
  1, 0, 1, 1, 0, 0, 0, 0, 0, 1, 0, 1,
  0, 0, 1, 1, 1, 1, 1, 0, 0, 1, 0, 0,
  1, 0, 1, 1, 0, 1, 1, 0, 0, 0, 1, 0,
  0, 1, 0, 0, 1, 1, 0, 0, 0, 1, 0, 1,
  0, 0, 1, 0, 1, 0, 1, 1, 0, 0, 1, 1,
  1, 0, 1, 1, 1, 1, 0, 0, 1, 0, 0, 1,
  0, 0, 0, 0, 0, 1, 1, 1, 1, 0, 0, 1,
  1, 0, 1, 1,
  ... 181 more items
]
```

```
ELEM2
[
  0, 0, 1, 1, 0, 0, 1, 0, 1, 1, 1, 1,
  1, 1, 0, 0, 0, 1, 1, 1, 0, 0, 1, 0,
  1, 0, 0, 1, 1, 0, 0, 0, 1, 0, 0, 1,
  1, 1, 0, 1, 1, 0, 1, 0, 0, 1, 0, 0,
  1, 0, 0, 1, 1, 0, 0, 1, 0, 0, 0, 0,
  0, 0, 0, 1, 1, 0, 1, 0, 0, 0, 1, 1,
  1, 0, 0, 0, 1, 0, 1, 1, 1, 0, 0, 0,
  1, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0,
  0, 1, 1, 0,
  ... 181 more items
]
```

```
ELEM3
[
  1, 1, 1, 1, 0, 0, 1, 1, 1, 0, 0, 1,
  0, 0, 0, 0, 1, 1, 0, 0, 1, 1, 1, 1,
  0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0,
  1, 0, 1, 0, 1, 0, 0, 1, 0, 1, 1, 0,
  0, 0, 1, 1, 1, 0, 0, 0, 1, 1, 0, 0,
  0, 1, 1, 1, 0, 1, 0, 0, 1, 1, 1, 0,
  0, 1, 1, 1, 0, 1, 0, 1, 1, 1, 0, 1,
  1, 0, 1, 1, 0, 1, 0, 0, 1, 1, 0, 0,
  1, 0, 1, 1,
  ... 181 more items
]
```

```
ADD
[
  1, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 0,
  0, 1, 1, 1, 0, 1, 1, 1, 0, 1, 1, 1,
  1, 0, 1, 0, 0, 1, 1, 0, 1, 1, 0, 1,
  0, 1, 1, 0, 1, 1, 0, 0, 0, 1, 1, 0,
  1, 1, 0, 1, 0, 1, 0, 1, 0, 1, 0, 1,
  0, 0, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0,
  0, 0, 1, 1, 0, 1, 1, 1, 0, 0, 0, 1,
  1, 0, 0, 0, 0, 1, 0, 1, 1, 1, 0, 1,
  1, 1, 0, 1,
  ... 181 more items
]
Add: 1.43ms
```

Elem^(2^281)-1 = 1

```
POW CHECK
[
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1,
  ... 181 more items
]
POW CHECK: 0.999ms
```

```
QUADRATIC
[
  0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 1,
  0, 1, 1, 0, 0, 0, 0, 0, 1, 0, 1, 0,
  0, 1, 1, 1, 1, 1, 0, 0, 1, 0, 0, 1,
  0, 1, 1, 0, 1, 1, 0, 0, 0, 1, 0, 0,
  1, 0, 0, 1, 1, 0, 0, 0, 1, 0, 1, 0,
  0, 1, 0, 1, 0, 1, 1, 0, 0, 1, 1, 1,
  0, 1, 1, 1, 1, 0, 0, 1, 0, 0, 1, 0,
  0, 0, 0, 0, 1, 1, 1, 1, 0, 0, 1, 1,
  0, 1, 1, 0,
  ... 181 more items
]
QUADRATIC: 0.678ms
```

```
INVERSE CHECK
[
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 1, 1,
  ... 181 more items
]
INVERSE CHECK: 6.619ms
```

```
MUL
[
  0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 1,
  1, 1, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0,
  1, 0, 1, 0, 0, 1, 1, 1, 1, 1, 1, 1,
  1, 1, 0, 0, 0, 1, 1, 1, 1, 1, 1, 0,
  0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1,
  1, 0, 1, 1, 1, 0, 0, 1, 0, 0, 0, 0,
  0, 0, 1, 0, 1, 0, 1, 1, 1, 1, 0, 1,
  1, 0, 1, 1, 0, 1, 1, 0, 1, 0, 0, 1,
  1, 1, 1, 1,
  ... 181 more items
]
Mul: 97.628ms
```

Distributivity

```
(a+b)*c
[
  0, 0, 0, 0, 0, 0, 1, 0, 1, 1, 1, 1,
  0, 1, 1, 0, 0, 0, 1, 1, 1, 0, 0, 0,
  1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 1, 1,
  1, 0, 0, 1, 1, 0, 1, 0, 0, 0, 0, 1,
  1, 0, 0, 0, 1, 0, 1, 0, 1, 1, 1, 1,
  1, 1, 0, 0, 1, 1, 1, 0, 0, 1, 1, 0,
  0, 0, 1, 1, 1, 0, 0, 1, 0, 0, 1, 1,
  1, 0, 1, 1, 1, 1, 1, 1, 0, 0, 0, 1,
  0, 0, 1, 1,
  ... 181 more items
]
a*c + b*c
[
  0, 0, 0, 0, 0, 0, 1, 0, 1, 1, 1, 1,
  0, 1, 1, 0, 0, 0, 1, 1, 1, 0, 0, 0,
  1, 1, 1, 1, 1, 1, 1, 0, 0, 0, 1, 1,
  1, 0, 0, 1, 1, 0, 1, 0, 0, 0, 0, 1,
  1, 0, 0, 0, 1, 0, 1, 0, 1, 1, 1, 1,
  1, 1, 0, 0, 1, 1, 1, 0, 0, 1, 1, 0,
  0, 0, 1, 1, 1, 0, 0, 1, 0, 0, 1, 1,
  1, 0, 1, 1, 1, 1, 1, 1, 0, 0, 0, 1,
  0, 0, 1, 1,
  ... 181 more items
]
```