Problem F3201
Integer and Bit

You know that integers are stored in 32-bit binary form for Python. For example the nonnegative integer 3 is represented as "...00000011", with a lot of leading zeros omitted. Usually we call the right most bit the 0-th bit and the second right most bit the 1-th bit and so on. In this way we could say that, for integer 3 the 0-th and 1-th bits are on, and the rest bits are off. Given a nonnegative integer a, check if the n-th bit is on.

Input

The input consist of 2 space separated integer $a(0 \leq a \leq 127)$ $n(0 \leq n \leq 6)$.

Output

Output "True"(without quote) if the n-th bit of a is on, otherwise "False"(without quote).

Sample Input 1

```
3 1
```

Sample Output 1

```
True
```

Sample Input 2

```
6 0
```

Sample Output 2

```
False
```

Explanation of Sample Data

The binary representation of integer 3 is "...00000011", the 1-th bit is on.
The binary representation of integer 6 is "...00000110", the 0-th bit is off.