
Value of bit

Input file: `standard input`
Output file: `standard output`
Time limit: 2 seconds
Memory limit: 64 megabytes

Input

Given integer number n and i .

Output

Output value of $i - th$ bit of the number n , that is 0 or 1.

Examples

standard input	standard output
179 0	1
4242 13	0
3086 28	0
9226 19	0
8071 2	1
2910 11	1