
72789. 2Power

Input file: `standard input`
Output file: `standard output`
Time limit: 1 second
Memory limit: 256 megabytes

For a given number N , print out all integer powers of two that do not exceed N , in increasing order.

Input

Given positive integer N .

Output

Output answer for the problem.

Examples

standard input	standard output
50	1 2 4 8 16 32
32	1 2 4 8 16 32
1	1
28	1 2 4 8 16
100	1 2 4 8 16 32 64