B - Check Power of Two

Given a number, check if it is a power of 2.

**Input Format**

First line of input contains T - number of test cases. Its followed by T lines, each line containing a single positive integer.

**Constraints**

1 <= T <= 10000  
1 <= N <= 1018

**Output Format**

For each test case, print "True" or "False", separated by new line.

**Sample Input 0**

5

1

8

10

25

512

**Sample Output 0**

True

True

False

False

True

**Explanation 0**

Self Explanatory

#include <iostream>

#include <string>

#include <vector>

using namespace *std*;

bool isPowerOfTwo(long long int n) {

return n > 0 && !(n & (n - 1));

}

int main()

{

*ios\_base*::*sync\_with\_stdio*(false);

*cout*.*tie*(nullptr);

*cin*.*tie*(nullptr);

int t; *cin* >> t;

while (t--)

{

long long int n; *cin* >> n;

isPowerOfTwo(n) ? *cout* << "True\n" : *cout* << "False\n";

}

return 0;

}