## Sum vs XOR

```
#include <bits/stdc++.h>
using namespace std;
string ltrim(const string &);
string rtrim(const string &);
/*
 * Complete the 'sumXor' function below.
 * The function is expected to return a LONG INTEGER.
 * The function accepts LONG INTEGER n as parameter.
 */
long sumXor(long n) {
    if (n==0) {
        return 1;
    long count=0;
    while(n>0) {
        if(n%2==0){
            count=count+1;
        }
        n=n/2;
    }
    long ans=1;
    for(long i=0;i<count;i++) {</pre>
        ans=ans*2;
    }
    return ans;
}
int main()
    ofstream fout(getenv("OUTPUT PATH"));
    string n temp;
    getline(cin, n temp);
    long n = stol(ltrim(rtrim(n temp)));
    long result = sumXor(n);
```

```
fout << result << "\n";</pre>
    fout.close();
   return 0;
}
string ltrim(const string &str) {
    string s(str);
    s.erase(
        s.begin(),
        find if(s.begin(), s.end(), not1(ptr fun<int,</pre>
int>(isspace)))
    );
   return s;
}
string rtrim(const string &str) {
    string s(str);
    s.erase(
        find if(s.rbegin(), s.rend(), not1(ptr fun<int,</pre>
int>(isspace))).base(),
        s.end()
    );
   return s;
}
```