Problem Link:

<https://codeforces.com/problemset/problem/1348/A>

Solution:

* **#include**<bits/stdc++.h>
* **using** **namespace** std;
* **int** main() {
* **int** t;
* cin >> t;
* **while**(t--)
* {
* **int** n;
* cin >> n;
* **long** **long** sum1 = (1LL << n);
* **for**(**int** i = 1; i < n / 2; ++i)
* sum1 += (1LL << i);
* **long** **long** sum2 = 0;
* **for**(**int** i = n / 2; i < n; ++i)
* sum2 += (1LL << i);
* cout << abs(sum1 - sum2) << **"\n"**;
* }
* **return** 0;
* }