# 338. Counting Bits

## SOLUTION IN JAVA

class Solution {

public int[] countBits(int n) {

// f(i) := i's number of 1s in bitmask

// f(i) = f(i / 2) + i % 2

int[] ans = new int[n + 1];

for (int i = 1; i <= n; ++i)

ans[i] = ans[i / 2] + (i % 2);

return ans;

}

}