(1).

	7					1	
0	0	0	0	0	0	0	
1	1	1	1	1	1	1	7+3+2+1+1=14
2	1	0	1	0	1	0	1 total operations: 14
3	1	1	1	0	0	0	1
4	1	1	1	1	0	0	1
5	1	1	0	1	0	0	1

(2). aggregate:

total flips:

$= n + \frac{n}{2} + \frac{n}{3} + \frac{n}{4} + \cdots \frac{n}{n}$

$= n(1 + \frac{1}{2} + \frac{1}{3} + \cdots + \frac{1}{n})$

$= O(n \log n)$

Amortized cost per operation is $O(n \log n) / n = O(\log n)$