$$O_b + \sum_{i=0}^{n-1} \left(O_{is} \right)$$

$$O_b + (h)(O_{is})$$
 $c = O_{is}$ $c = O_{is}$

$$f_{15}(n) = O\left(g(n)\right) \lim_{n \to \infty} \left(\frac{f_{15}(n)}{g(n)}\right)$$
Let $g(n) = N_{10}$

$$\lim_{n\to\infty} \left(\frac{cn+q}{n} \right) = c'$$

$$\int_{-\infty}^{\infty} c \int_{-\infty}^{\infty} \frac{dn}{n} \left(\frac{cn+q}{n} \right) = c'$$

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$$= 70 \leq \frac{f_{15}(n)}{g(n)} \leq C \qquad N > N_{c}$$

Binary Search int lowend = 0 if (Val = = a [middle]) return middle; elseif (val) a [middle] lowend = middle +1; else highend = middle-1 do 3 int middle = (high End + low End) /Z; while (low end <= high End); retorn -1; POm = Probability of halving
POr=Probability of halving
POr=Probability of halving
element

Or = Operations before On + 1/2 Pom + POf As n gets smaller by operations decrases exponentially so O(log(n))