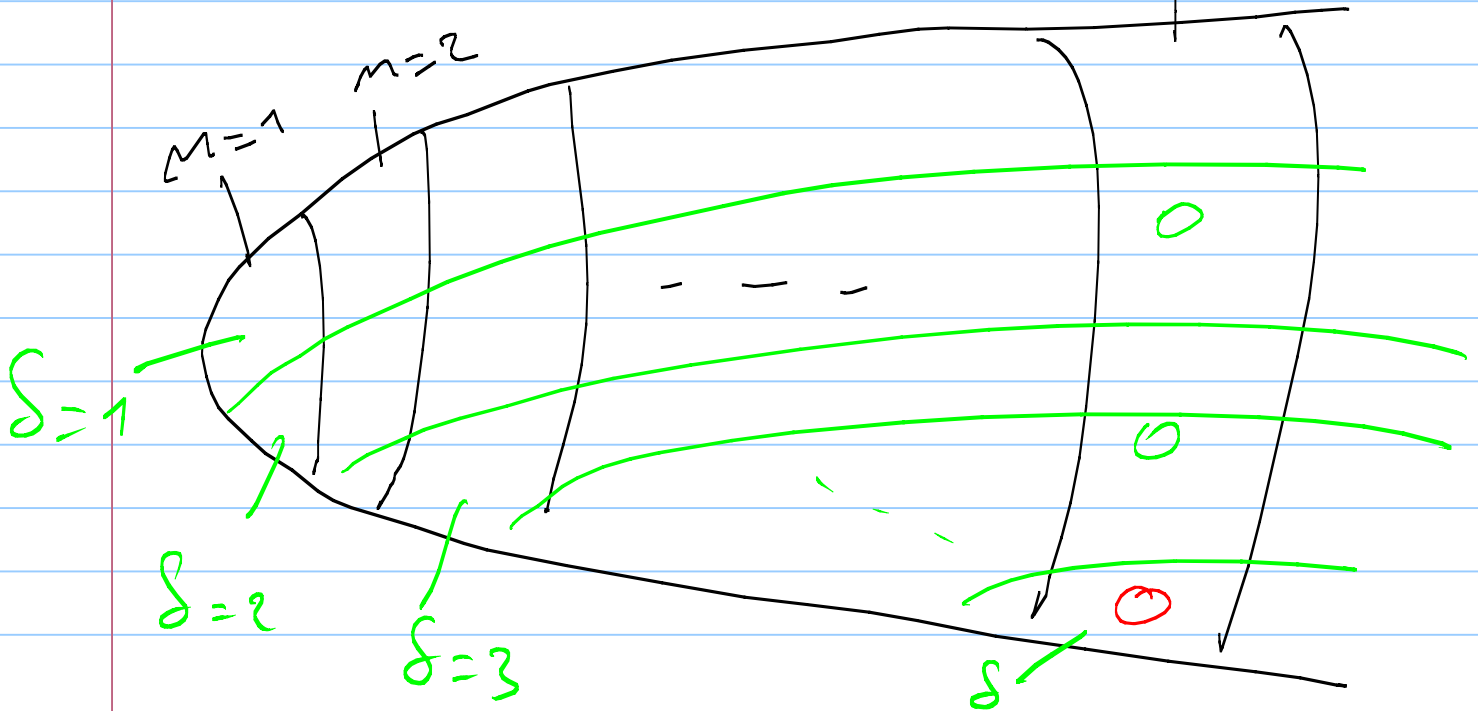


Busqueda Adaptiva y Codigos n

Note Title

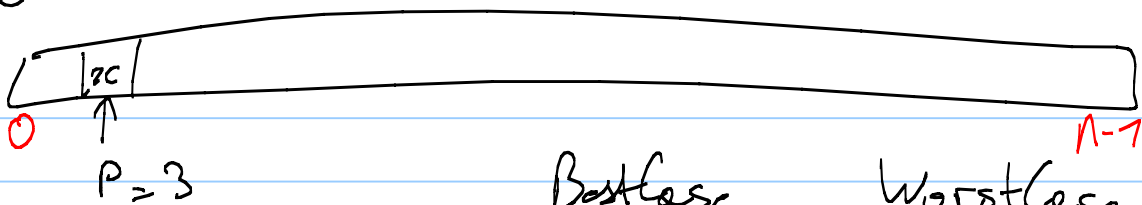
3/25/2010



II Búsqueda en un arreglo ordenado

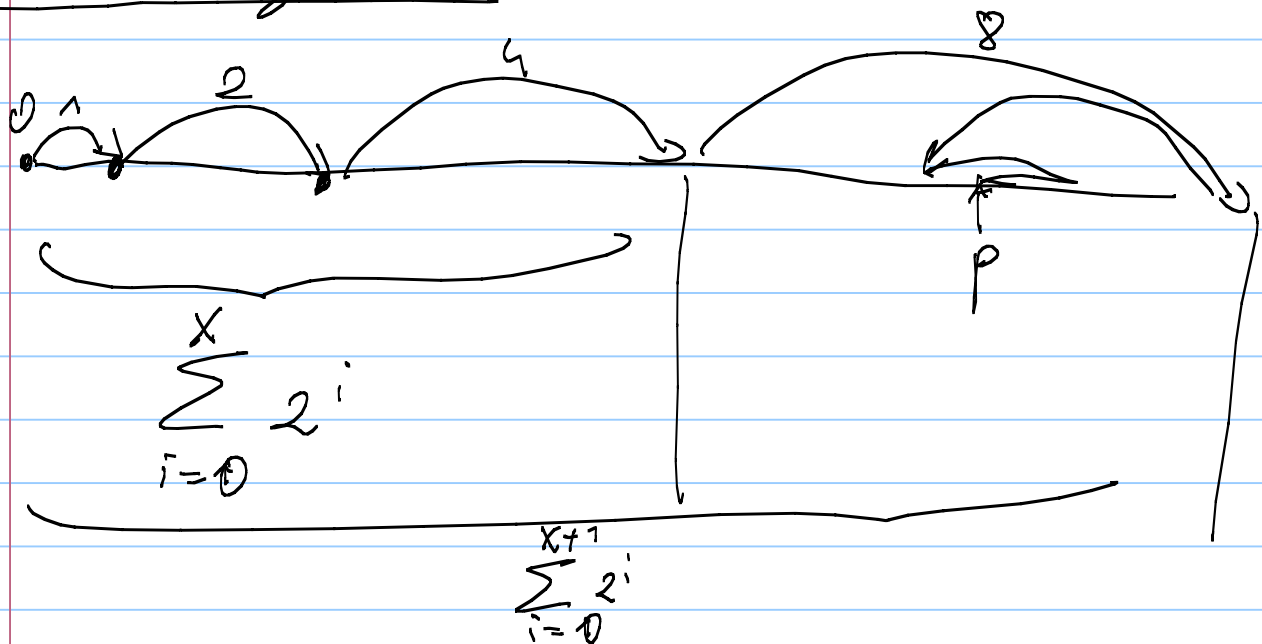
- * Binary Search } comparaciones
- * Interpolation Search } Valor
- * hash
- (- - -)

$$\lg = \log_2$$



	BestCase	WorstCase	General
Binary Search	$\lceil \lg n \rceil + 1$	$\lceil \lg n \rceil + 1$	$\lceil \lg n \rceil + 1$
Sequential Search	1	n	p
ABinary Search	1	$2 \lceil \lg n \rceil$	$2 \lceil \lg n \rceil$
Doubling Search	2	$2 \lceil \lg n \rceil + 1$	$2 \lceil \lg p \rceil + 1$

II 2 Doubling Search $\in$ Unbounded Search



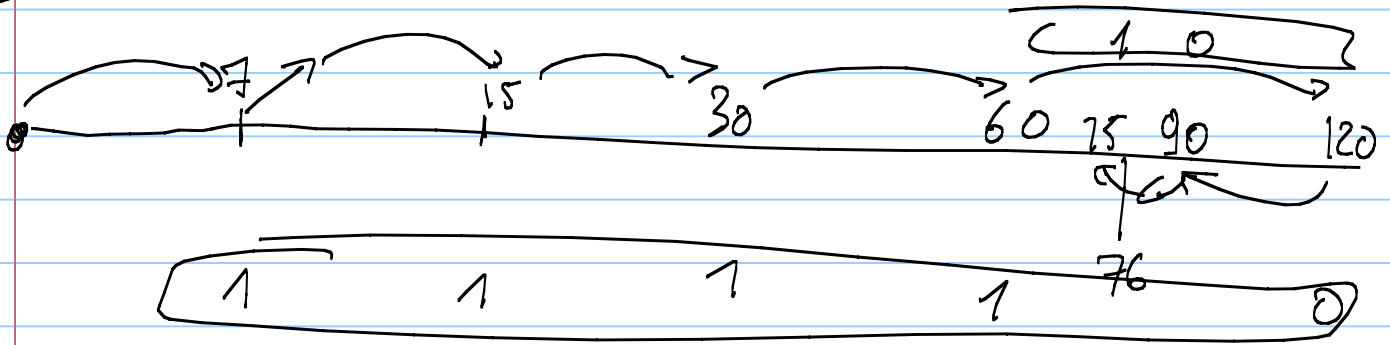
Encontrar el intervalo:

$\lg p$ comparaciones

Encontrar la posición
 $1 + \lg p$

Total $1 + 2 \lg p$ comparaciones

III) Buscar es Codificar



$p \rightarrow 2 \lg p$ bits

$$p \rightarrow \frac{1}{\log p} \frac{1}{p^2}$$

