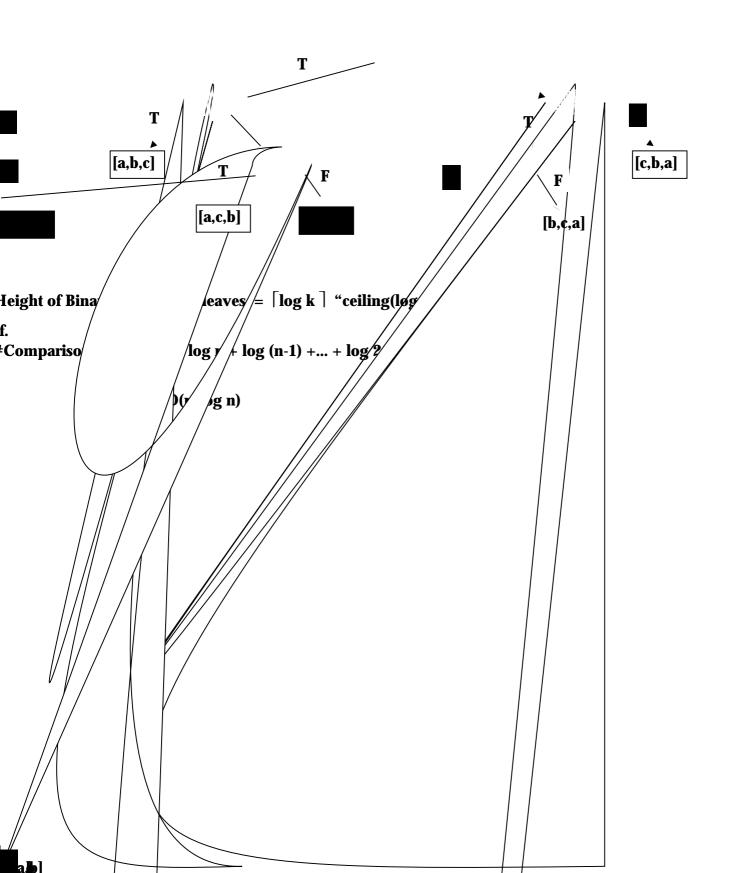
	·		
The sequence to be sorted is s	tored externall <b>y Affio f</b> i	ilesnecgdiss(NVr t	a)ře.Pærf <b>O(m</b> an <b>(l</b> og <b>tří))</b> Algoritn
			• El <b>ah</b> entary/Simple so
			O(n *
			Sort algorithms can be grouped a
			<ol> <li>InsertiWn: e.g. Merge sort -</li> </ol>
		2.	
			3. Exchange: e.g.
	The sequence to be sorted is s		The sequence to be sorted is stored externally data files mcgdiff hvr t

Internal:



comparisons is O(nLog n).

ary comparison. The optima has malistQnct elements.
e.g. n = 3
has values a,b,c. Let use the notatQon [a,b,c] for the sequence s.



## ience

ype T is a function from Nat <sub>I</sub>to T.

$$\mathbf{x}\mathbf{g}.\mathbf{Nat}_{\mathbf{n}} 
ightarrow \mathbf{Real}$$

where 
$$Nat_{n} = \{1,2,...,n\}$$

We can use the notation

$$[x(1),...,x(n)]$$
 or  $[x_1,...,x_n]$ 

to denote the sequence x.

Permutation of a Sequence

Shen B(a) = 3, B(b) = 0, B(c) = 2 and B(x) = 0, for other x : T

where t ∈ S ≤S(t)