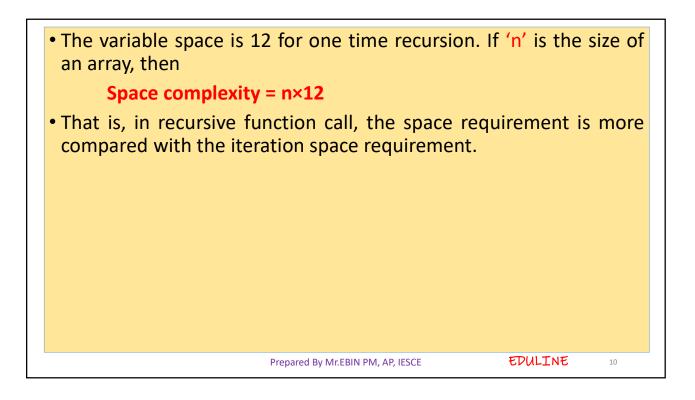
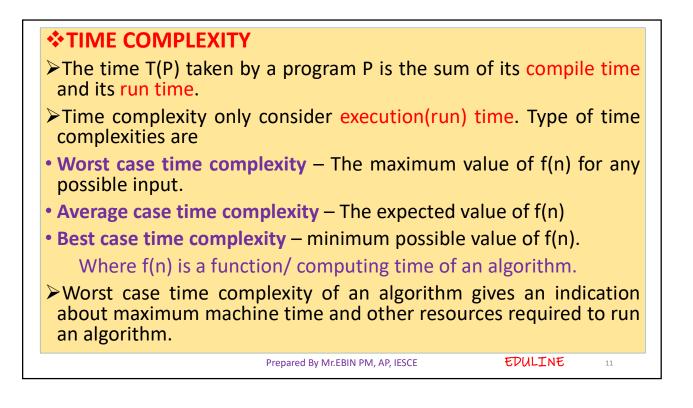


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compiler must address for ea • The following one recursive	ere, the summation is handled recursively. This means that the ompiler must save the parameters, local variables and the return ddress for each recursive call. The following table shows that the number of bytes required for the recursive call under the assumption that an integer and the tray each required 4 bytes.					
	ТҮРЕ	NAME	NO.OF BYTES			
	Parameter 1 – array pointer	list[]	4			
	Parameter 2 – integer	n	4			
	return address		4 Total = 12			
	EDULINE 9					





PERFORMANCE EVALUATION

Performance evaluation of an algorithm or a program can be loosely divided in to 2 major phases.

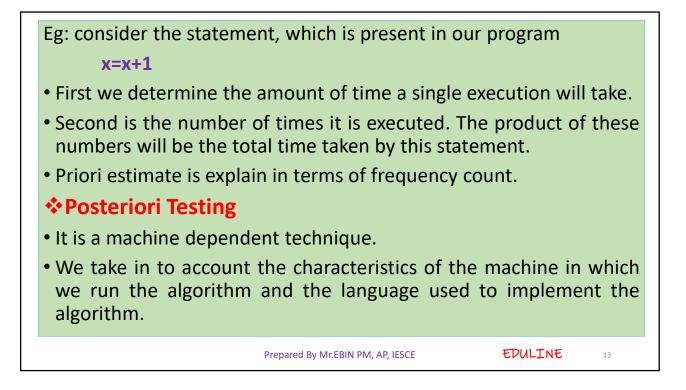
Priori Estimates

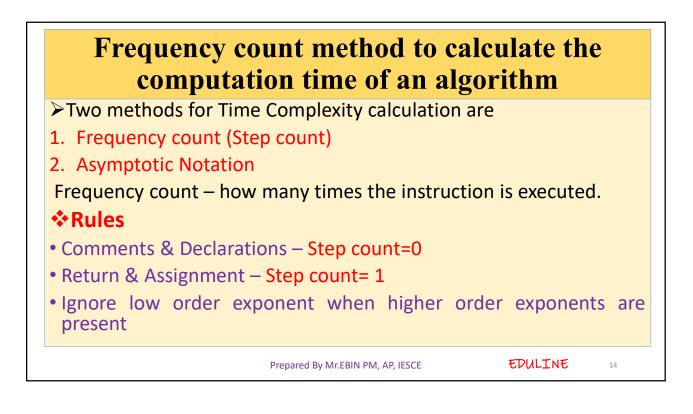
- It is machine independent technique.
- We determine the frequency count of each statement, ie ; how many times a statement is executed. This number can be determined from the algorithm, independent of the machine it will be executed on and the programming language in which the algorithm is written.

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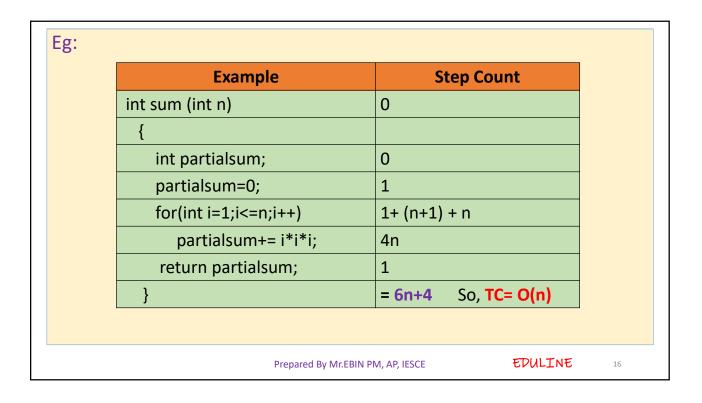
EDULINE

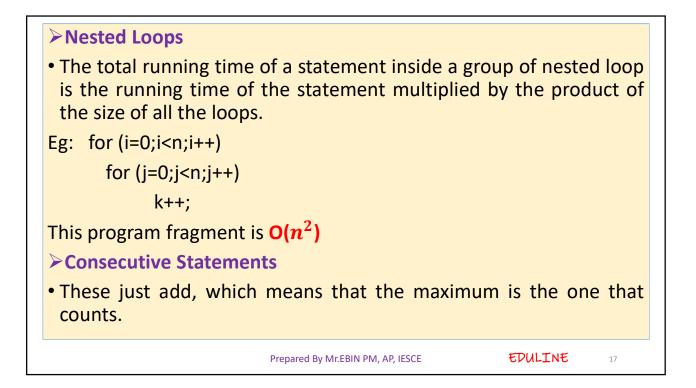
12

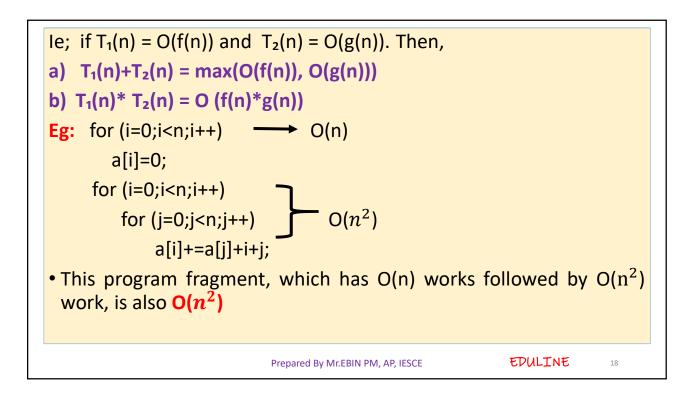


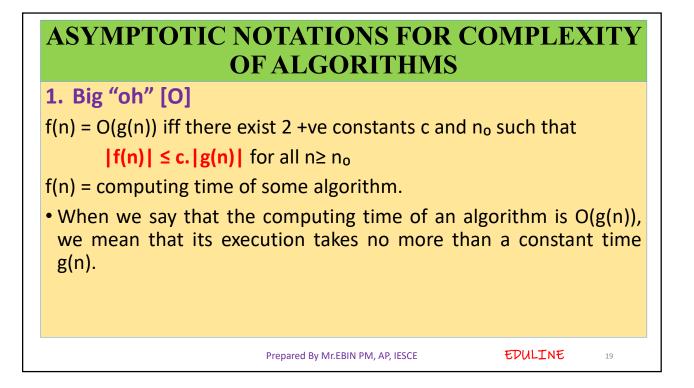


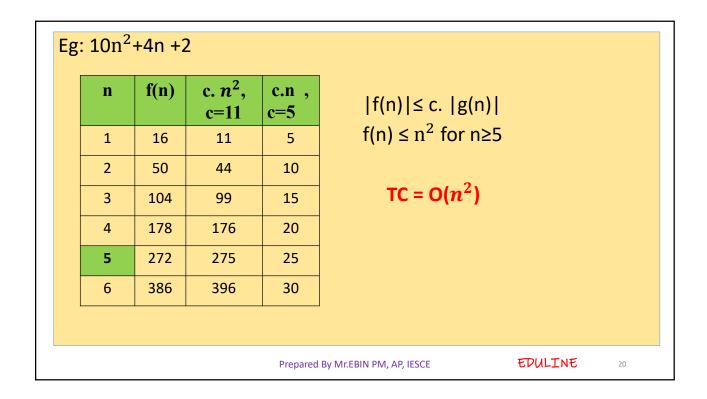
		kample consider 5n ⁴ +7n ³ +10n ² +n +100. Here Time Complexity (TC) = O(n⁴) pre constant multiplier.					
		Example	Step Count				
		int sum (int a[], int n)	0				
		{					
		s=0;	1				
		for(i=0;i <n;i++)< td=""><td>1+ (n+1)+n</td><td></td></n;i++)<>	1+ (n+1)+n				
		s=s+a[i];	n				
		return s; }	1				
			= 3n+4 So, TC= O(n)				
		Prepared By Mr.EBIN	N PM, AP, IESCE EDULINE 15				

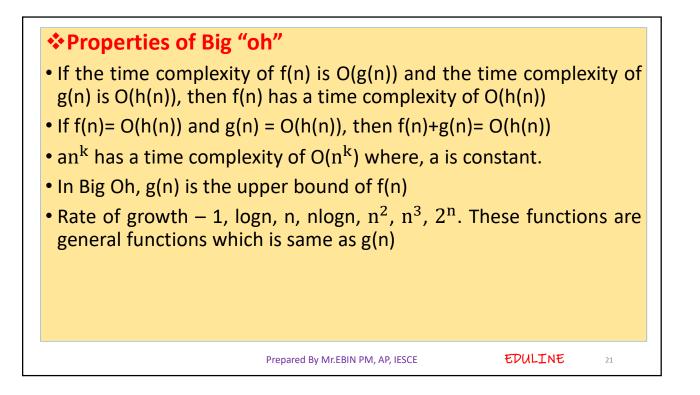


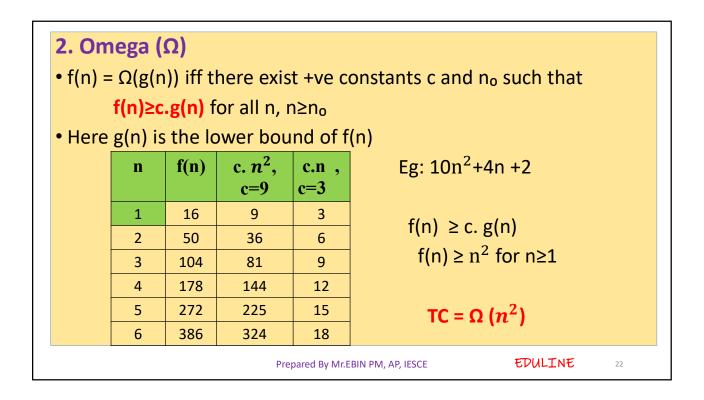


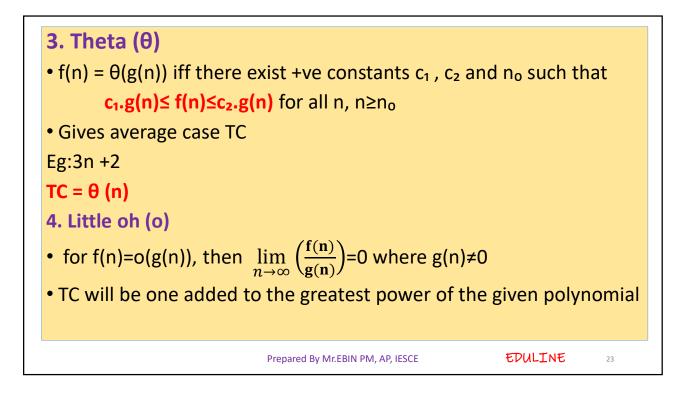


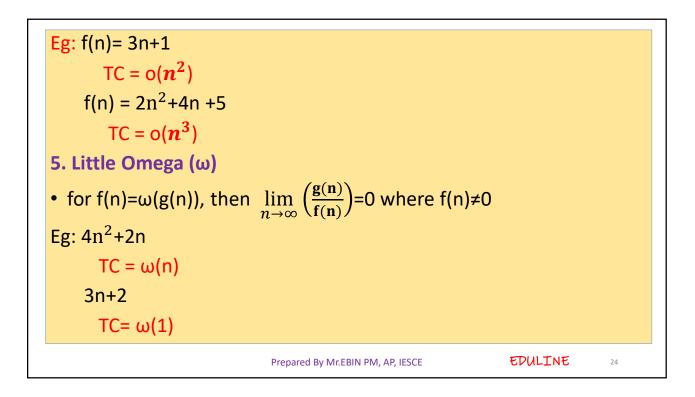












MASTER'S THEOREM

