## Asymptotic Ay, Analysis

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	Date , 1 120
	In Asymptotic Analysis, we check the pertorent of algorithms in terms of input size.
	is taken by an algorithmy when we uncrease
•	(why performance analysis?
	Scale Alan
	response than it's better than others
	macyses this we do performance
	Egir if a softewaren's taking Bomins to sust a taking 30 mins to use ? "H's taking 30 mins to just swats the ord another Alux a
Bereit States	and another Alyo B is here to just exceptate.
	ord another Alyo B is taking just some ninese better.  better.
-	(i) linear dearch where the
	a deline and space
	(ii) Binary Search order of growthy is logarithm *togen)

1090	
98	bere, in linear search when we provide
	Donnall neem of input it will response very
	fast but in case of
	are those their cinear
	Olnary gearch It will taken to response in
	That Enput but
	when It could to lavege, data Bingvey
	sewich very bast as compare to union search.
	corres?
	coney?
	because the order of growth &n
	Bluorey Search is logaritumic
	concre as order of growth in linear search
	is elnear lit take time to process cargo
	data in sequence sor linear search ).
	eg:- table:-
	input size Running time Running time bog linear seases bog Binosey Season
	bog lenoar seaseer bog Binasey Season
	2 see 1h
	100 sec 1.84
	10 nb 55.5h 3-5h
	109 6.3 years 8.3 h