TIME COMPLEXITY & BIG O NOTATION Ex: This morning, I manted to eat Some pizzas; to ? asked my brother to get me some prom Daming (3km He got me the pizza & 3 way happy only to treatize it was to key for 29 friends who came to my house a surprise visit la My brother can get 2 Pizzas for me on his bike but Pizza for 29 priends

d	is too huge of an he commot handle	mind rap truffer of	While
A CEL	2 P372N))	E OKAJI HOLA	BZG DEAL.
	68 PIZZNY ->		A. a.
Pull o	ALL THE CANADA	ZN SHORT TO	ime,
2.112	pourt brief or was	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	What is Prime Comp	leseity?	
	-, Time complexity of alogotishms.	is the study of	eppiciamy
	(i) Time Complexion	ty => You time to evite an algorithm	aken to grossy the input!
	consider two developments alaprilling to york S Roban did I	his independent	ulham
	their trap por influence	ut vize n. hallo	wing
	np. of elements (m)	Thulshow's Hyo	Rohi 1 Mgs
- 40	10 1- American 1847	90 ms	122 mg
	10 elements	110 mg	124 ms
	70 4	The state of the s	131 ms
	110 11	180 m	1800 mg
10.00	7000	25	

	Date Date
NO.	-> We can see that initially Shulshaming alaparthmy was shiring for smaller all elements
	alogorithm was showing or elements
	input but as the number of elements
17.	insteases Rothan's also algorithm looks
and the second	Good ;
	Time complexity: Gending GTA V to a privil:
	let us say you have if where the
	array hour place, you rank to gen
hatel 4 is	him a gamen
-	time a name at the
	act this 60 GB file for you not the you
t on	the sound it to him The
A. test	More: Both of you are mying 0,0144 min
ulai	1 gg/Deg ada limple
	The been they to summe the grant of
	by delieustry it to his house.
post	Copy the game to a Moved disk & Send it!
	I will you do the same thing pay sending a
	game like Minequeepet which is in KBs of
منب	- Ajige ? A spire took part male
	-> No, because you can send it via intermet.
	The state of the s
Can by	-, of the file size grown, time taken by
	online gending They linearly -> O(n)
<u> </u>	Big O of mi
20	1 2 011
012	hhyrial sending remains constant. Olmo) or Oll Big O of 1
C.L	physical sending tremains complant.
1.4	Big O of !

Calculating ender in terms of infut size.

In order to calculate the order,
most impactful term containing is Size of input. , Let us arrune that formula of an give tupping to something in motoragelo n looky like this. Algo 1 -> K, m2 + K2m + 36 => O(m2) order turn lower order Algo 2 -> K1K2 + K3 + 8 K1K2 nº + K3 + 8 = 10 (mº) OR NOTE: There are pormular por time taken by them. Lisualizing Big O.

37 we were to plat O(1) 4 O(m)
on a graph, they will look something like this: (OLm) -> linear O(1) -> constant 3ME

