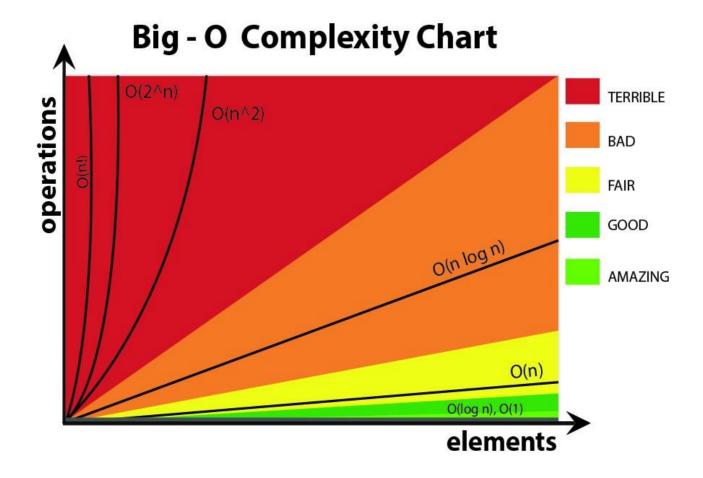
	Doubly Linked List land warmen
he	In a doubly linked list, each node Contains a data fact along with the two addresses, one for the previous node and the other one for the
	meat male
	prev data next prev data next prev data next 7 - 21 - 8 - NULL
hymri	Implementation A doubly linked list can be implemented in C language Os follows:
	int data:
1 = 8 3 1	Struct Node * next; Struct Node * prev;
	Oberation on a Double link List
	Oberations on a Doubly Linked List The insertion and deletion on a Doubly Linked list Can be performed by rewring pointer Connections Just like we saw in a singly linked list.
	The difference here lies in the fact that we need to soliust two pointers (prev & next) instead of one [next) in the case of a Doubly linked list.
	in the case of a Doubly linked list.
-	

	· · · · · · · · · · · · · · · · · · ·
11	Time Complexity & Big O notation
	This morning I wanted to eat some pizzas; So I asked my brother to get me some from Dominas (3 km far) He got me the pizza and I was happy only to realize it was too less for 29 friends who came to my house for a surprize visit!
Pin	my brother to get me some from Dominas (3 km
1/3	far
ân	He got me the pizza and I was happy only to realize
	it was too less for 29 friends who came to
ENY	my house for a surbrise visit!
èn.	My prother can get 2 pizzas for me on his bike but pizza for 29 friends is too huge of an input for him which he cannot panale.
	but Dizza for 29 friends is too huge of an input
616	for him which he cannot handle
	71.00
h _{est}	We soon see that initially shortness; alsoni
,	2 pizzas es okay! not a big deal!
	Marghor of Changely (Action to State of the Control
	68 pizzas - @ Not possible la
	I in short fime
	Mark Bus : Who Reaction is better ?
	What is Time Complexity? Time Complexity is the study of efficiency of algorithms.
	Time Complexity is the study of efficiency of algorithms.
1	is a moral brown to man you have by
wint	(3) Time Complexity = How time taken to execute an
	algorithm grows with the size
170	or said truste soul in of the winbut have love
	some that they wast they had and
	Consider two developers who created an algorithm to
dei.	sort n numbers. Shubhan and Rohan idid this
	independently.
	TIMES AND

	When ran for input size n, following results were recorded
	When run to control
hade	were suited and to a balaba a promotion will
	no of elements (n) Shubham's Algo Rohan's Algo
- Jakaje	10 elements 90 ms 122 ms
01	70 elements 10 ms 124 ms
	10 elements 180 ms 131 ms
taichi	10 00 elements 25 800 ms
	We can see that initially Shubham's valgorithm was shining for smaller input but as the number of elements increases rohan's algorithm
21	was shining for smaller input but as the
	number of elements increases to han's algorithm
	looks good!
	Quick Quiz: Who's Algorithm is better?
	fruit day. Who rigorium is be the
And Flori	Time Complexity: Gending GTAV to a friend
1	Let us say you have a friend living 5 kms
nd) 1	away from your place. You want to send him
1000	a game.
	Final exams are over and you want him to get
	this 60 GB file from you! How will you send it
the fluid	No to him of house of all of the control of the con
w Not-	Note that both of you are using (II) 4G with
	I realised with the
te.	

	Visualising Big O If we were to plot O(1) and O(n) on a graph they will look something like this:
like	much a pintuse and any max wit ob ay hid
	time O(1) -> Constant
	$(n) \rightarrow linear$
100	13 the file Size Grows them to ken by Online Servi
white	The file size group + Inne taken by physical so a condition (anxional Dyn) at O(1)
India	Catallating Order in teems of label size ingit into sender ingit into sender into account.
JVÍ	exact of what size is now algorithm
12	Figo 1 = 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	8+1.4+.4.8 = 10/4
	the character of the continue of the same count had the



Source: https://stackoverflow.com/questions/3255/big-o-how-do-you-calculate-approximate-it