Data Structures & Algorithms by Code With Harry This course will get you prepared for placements and will feach you how to create efficient and fast algorithms. Data Structures and algorithms are two different things. Data Structures: Arrangement of data so that they can be used efficiently in memory (data items) Algorithms: Sequence of steps on data using efficient data structures to solve a given problem. Other Terminology Database -: Collection of information in permanent Storage for faster retrieval and updation. Data warehousing: Management of huge amount of legacy data for better analysis. Big data - Analysis of too large or complex data with traditional data processing application Data Structures and Algorithms are nothing new If you have done programming in any language like you must have used Arrays -> A data structure and so Sequence of processing Steps to Solve a problem -> Algorithm

	Ecol
	Memory layout of C programs
t and	When the program starts, its Code is copied to the main Memory. Uninitialized Data Static +
then	Stack holds the memory occupied Initialized Data Variables by the functions. Code Segment
a) the	Heap contains the data which is memory (RAM) requested by the program as dynamic memory.
blem	Initialized and uninitialized data segments hold initialized and uninitialized global variables respectively
storal	Dotabase - Collection of information in permanent
egacy	Data warehousing - Management of huge amount of data for better analysis.
	Big data - Analysis of too large or complex d which cannot be dealt with teacht data processing application
AT A S	That Sentures and Algorithms are restrong news
illean .	with the myderd of some fragments to small a

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1,1	Time Complexity Q. Ria Ornatation
	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)
ph	my brother to get me some from Dominas (3 km
1/3	far)
(in)	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!
	it was too less for 29 friends who came to
ř.W.	My house for a surprize visit!
C.S.	My prother can get 2 pizzas for me on his bike
	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.
£18	102 MM WILL AMOU JUMBLES
us A	Lake some and that initialize there interest
	2 pizzas -> (2) okay! not a big deal!
	L. Normalia di antino di internationali di Managaria di M
	68 pizzas -> @ Not possible la
	I in short time
	March ang: Who's Agortha is botter?
	What is Time Complexity? Time Complexity is the study of efficiency of algorithms.
-	Time Complexity is the study of efficiency of algorithms.
N	1) Ti bullout - Have line leben in execute an
WK.	Time Complexity = How time taken to execute an algorithm grows with the size
+	of said town how how the simput house long
1	this but they would not the the of with
	Consider two developers who created an algorithm to
11.	sort n numbers. Shubham and Rahan idid this
	independently.
- 1	