aprilling -25









Fntoductiona Recap

Fri Aug 14	quora.com	4:30 PM Fri Aug 1	4	AA	,				e que	ora.cor	n
cs.slu.edu/~chambers/fall17/algorithms/schedule/lecture1.pdf	🛛 What are t	cs.slu.	edu/~cham	bers/fall17/	algorithm	s/schedı	Je/lecture	e1.pdf		×	v
Quora 🏠 Home 🛛 Answer 📸 Spaces 🔔	Notifications	Quor	'a ☆	Home	Ans	wer	Con Space	ces ,	🗘 Not	ification	s
Computer Science Courses Computer Science Education Computer	er Programming	Algorithm	ns Comp	uter Progra	mming	0					
0		Why sh	nould I t	ake a c	ourse	on alg	orithm	ns and	l com	plexit	y?
What are the 5 most important CS courses that computer science student must take?	every	🔀 Answ	er 🤊 F	ollow · 10	→2 R	equest			Ω	₽.	\Diamond
Answer Sollow 75 + Request				Siness							
	000	2		in pargi i in		J	ny qu				
	ree	6 Answer	S								
Z Learn More		Chi Dev Ans	ris Turner, veloper/Co	Ex Micros	oft Devel	oper tur	ned Free	lance			
William Hembree, Most Viewed Writer in Computer Science E Answered March 1, 2018. This list assumes that you will be graduating to become a software d	Education	what mak else's libr understar inspiration	es a differe aries, node ding of ba n, intelliger	ence betwe e.jsetc. a sic algoriti nce, experi	een an av nd one wi nm, data ence and	erage de ho can w structure perspira	eveloper, vrite them es, and co ation].	one who n is the f ode com	o can u iundam nplexity	se every ental [with a	one dose
 Data Structures and Algorithms – actually everyone should have courses on this susject because it is the core knowledge for every software developer. 	two or three ery type of	Algorithm	s will lead	you into th	e unders	tanding	of comple	exity, co	mplexit	y relates	s to
 Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works 	assembler you does and, at a	A 3 C	D Add a co	mment						dd Comn	A>
 Assembly Language - it doesn't really matter <i>which</i> processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 O 	assembler you does and, at a ☆ ふ …		D Add a co	mment						🗘	A nent
 2. Assembly Language - it doesn't really matter <i>which</i> processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) ▶ 13 ♀ ♀ Add a comment 	assembler you does and, at a ☆ ふ … Add Comment		D Add a co	mment				P		😍	hent
 2. Assembly Language - it doesn't really matter <i>which</i> processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 ♀ ○ Add a comment 	assembler you does and, at a		D Add a co	mment						😍	Anent
 2. Assembly Language - it doesn't really matter <i>which</i> processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 Q D Add a comment 	assembler you does and, at a Add Comment		D Add a co	mment	4			-		Comn	A nent
 2. Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 2 0 Add a comment 	assembler you does and, at a Add Comment	Ang biggest m	Q Add a co	mment mber 3, 201 g (or rather nade in my	4 dropping academic	g out be c career.	cause it v	was too k	hard) w	dd Comn	An ent
 2. Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 2 0 Add a comment 	assembler you does and, at a Add Comment 000 000 000 000 000 000 000 0	Ans Not taking biggest m I am not a basically n	Add a co	mment mber 3, 201 Gor rather nade in my r (I'm a dat being a go	4 droppin academi a scientis od algori	g out be c career. at) but do thm dev	cause it v bing any k eloper.	was too l	hard) w	dd Comn as one o tive wor	An ent of the k is
 2. Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 2 0 Add a comment Add a comment Copi Vajravelu, Senior Software Engineer Updated November 25, 2018 built this list assuming that you want to work as a software developed f you want to become a CS professor, you may want a different list w topics. But this list is based on courses to prepare you for work as a software and the software in the software in the list is based on courses to prepare you for work as a software and the software in the software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on courses to prepare you for work as a software in the list is based on course you for work as a software in the list is based on course you for work as a software in the list is based on course you for work as a software in the list is based on course you for work as a software in the list is based on course you for work as a software in the list is based on course you for work as a software in the list is based on course you for work as a software in the list is based on course you for work as a software in the list is based on course you for work	Add Comment	Ans Not taking biggest m I am not a basically n You basic foundatio about cor interview	Add a conserved Nove on this classification of the classification	mment (i) (or rather nade in my (i) (or rather nade in my (i) (m a dat being a go ever get ar dge in eon (arious al ne (onless	4 dropping academi a scientis od algori interview iputer se gorithms. s you're	g out bec c career. It) but do thm dev v that we ience, ar Do you looking t	cause it v bing any l eloper. on't requi nd such in need a w o be a de	was too l kind of q ire you to nterview hole cla eveloper	hard) w quantita o have s vs will o ss to ar). Is it	dd Comn as one o tive wor some ften ask nswer m . (more)	A nent
 2. Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 2 0 Add a comment Add a comment Copi Vajravelu, Senior Software Engineer Updated November 25, 2018 built this list assuming that you want to work as a software developer f you want to become a CS professor, you may want a different list victories. But this list is based on courses to prepare you for work as a software at an the corporate world. 	assembler you does and, at a Add Comment	Anno biggest m Vou basic foundatio about cor interview A 3 ↔	Add a co Add Add Add Add Add Add Add Add Add Add	mment mber 3, 201 c (or rather hade in my c (l'm a dat being a go ever get ar dge in com rarious alt no comless	4 dropping academia a scientis od algori interviev puter se gorithms. is you're l	g out bec c career. th but do thm dev v that we ince, ar Do you looking t	cause it v bing any l eloper. on't requi nd such in need a w o be a de	was too h kind of q ire you ta nterview hole cla eveloper	hard) w quantita o have s /s will o ss to ar	dd Comn as one c tive wor some ften ask hswer m . (more)	A> An ent of the k is you ost A>
 2. Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 2 0 Add a comment Add a comment Copi Vajravelu, Senior Software Engineer Updated November 25, 2018 built this list assuming that you want to work as a software developed four work as a software developed four work as a software to become a CS professor, you may want a different list work opics. But this list is based on courses to prepare you for work as a software so in the corporate world. 1. Data structures and algorithms: Every company asks question class in coding interviews and you need to know the basics to be software. 	assembler you does and, at a Add Comment Add Comment	Ang biggest m lam not a basically f You basic foundatio about cor interview A 3 ↔	Add a conserved Nove this classistakes I m developer married to ally won't of hal knowle poperity of questions D	mment (or rather ade in my (I'm a dat being a go ever get ar dge in eon (arious al ne (anles	4 dropping academia a scientis od algori interview iputer se gorithms. is you're l	g out bec c career. It) but do thm dev v that we ience, ar Do you looking t	cause it v bing any l eloper. on't requi nd such in need a w to be a de	was too l kind of q ire you to nterview hole cla eveloper	hard) w quantita o have s vs will o ss to ar). Is it	dd Comn as one o tive wor some ften ask nswer mo . (more) \$	A nent
 Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 2 0 Add a comment Add a comment Copi Vajravelu, Senior Software Engineer Updated November 25, 2018 built this list assuming that you want to work as a software develope f you want to become a CS professor, you may want a different list w opics. But this list is based on courses to prepare you for work as a software. Data structures and algorithms: Every company asks question class in coding Naterviews and you need to know the basics to bu software. Databases: You will build software that interacts with some form data storage. You will very likely use databases to do that. 	Add Comment Add Comment Add Comment Coor Coo	Anno biggest m I am not a basically n You basic foundatio about cor interview Ans Source foundation about cor	Add a co	mment mber 3, 201 (or rather nade in my r (I'm a dat being a go ever get ar dge in com (Arious al no (onles	4 dropping academia a scientis od algori interviev puter se gorithms: s you're	g out bee c career. at) but do thm dev v that we ience, ar Do you looking t	cause it v bing any l eloper. on't requi nd such in need a w o be a de	was too l kind of q ire you to nterview hole cla eveloper	hard) w quantita o have s rs will o ss to ar). Is it	Image: Comparison of the compariso	A nent
 Assembly Language - it doesn't really matter which processor's learn, this is the course that teaches you what the CPU actually software level, how it works (more) 13 Add a comment Add a comment Gopi Vajravelu, Senior Software Engineer Updated November 25, 2018 built this list assuming that you want to work as a software developer f you want to become a CS professor, you may want a different list work on the corporate world. Data structures and algorithms: Every company asks question class in coding interviews and you need to know the basics to be software. Databases: You will build software that interacts with some form data storage. You will very likely use databases to do that. Networking: Your so 	Add Comment	Anno biggest m Vou basic foundatio about cor interview Ans Condatio about cor interview	Add a co	mment (or rather nade in my (I'm a dat being a go ever get ar dge in em (Trious al ne (unles	4 dropping academia a scientis od algori interviev porithms: is you're	g out being corrections of the second	cause it w bing any k eloper. on't requi nd such in need a w to be a de	was too l kind of q ire you to hterview thole cla eveloper	hard) w quantita o have s ss to ar). Is it	Image: Weight of the second secon	A nent

Mindset (4 main goals): -Interview: now to concisely explain your answer to a technical question, complete with trade-offs -Design meeting: Same! Developer: What Known approaches/issues are there with regards to your problem/code? Modeling: IF already developed, which Solution fits your domain area best. (Note: all of these are relevant for date structures, too?)

Q: What is an algorithm? · way to solve aproblem · template an algorithm Word used by programmers when they do not want to explain what they did. set of procedures to solve a problem Related : What is a program? (thow is it different?) - program Solves specific Wollen programs generally tix - long noge - Comples - set of Jct stricture

Goal: Give high level idea of your solution. -Not code! Why . - Not English prose (Use date structures, 100ps, functions, etc. In here, 3 parts to every algorithm: D Pseudocode D Runture (uth justifiction) 525-0 3) Prots of correctness

Preregs: D Discrete math: Why? proots1 o big-0 o recence tinduction 2 Data structures: Why? use Hen! understand traveoffs. -linked - arrex - tree hash - heop

Goal of HWO: - Re-locate references to these 2 classes. Re-familiarize your self with core concepts. Practice pseudo code. (It will be hard!) Meet some fellow students of form working relationships -Figure out Carros, while tackling terain topics! CHopefully, you'll already have seen everything on HWO.

Course logistics! Canues site for eventury. Noneur Outline - Canves: HW Submission, lecture - Perusall: every Sunday + Thurs - Homework: Oral + written Policies to not?: - Integrity - Group work - Missing work policies Nert fine: some review GE HWDI