1 2	Rebecca and the Frame Shift(?)
3 4 5 6 7	[00:31:13.24] Interviewer: OK. So, so it sounds like what you're saying is, on one hand, normally a pointer is like one thing. And if you're making an array, it's a bunch of things. So, how could a bunch of things be the same thing as just one thing?
, 8 9	[00:31:29.02] Rebecca: Yeah.
10 11 12	[00:31:29.06] Interviewer: Like that, that's why this seems like a little bit weird. On the other hand,
13 14 15 16	[00:31:32.28] Rebecca: Does that code work for that option? Like, cuz, if it did, that'd be very nice, cuz that's how youthat's how I would make that pointer array.
17 18 19 20	[00:31:40.27] Rebecca: Cuz, it would just be an array, all the things would be pointers, and then you could just say "star p of 1 {gestures right hand outward, possibly indexically} points to this name, star p of 2 points to this name."
21 22	[00:31:49.10] Interviewer: Mmmhmm.
23 24	[00:31:50.05] Rebecca: But, I don't know if that's correct syntax.
25 26	[00:31:53.19] Interviewer: OK
27 28	[00:31:54.17] Rebecca: Or if it even is real syntax. {laughs}
29 30 31	[00:31:56.10] Interviewer: OK. But like, but like, if that'sso there are two separate issues here, right?
32 33	[00:32:00.17] Rebecca: Yeah
34 35 36 37 38	[00:32:01.05] Interviewer: Because one of them is, as an idea /uh-huh/ I'm gonna put little stars in here /OK/ and that's gonna mean that it's kind of like an array /OK/ of pointers. It seems like as an idea you're comfortable with the fact that, like, this should be a thing.
39 40	[00:32:13.13] Rebecca: Yeah
41 42	[00:32:14.10] Interviewer: Like, you *should* be able to make it.
43 44	[00:32:15.15] Rebecca: Yeah
45	[00:32:15.29] Interviewer: I don't know if *this* makes it=

10	
46	[00:20:18 08] Debaase up bub [Dut]
47 48	[00:32:18.08] Rebecca: uh-huh. [But]
40 49	[00:32:19.07] Interviewer: [But]
50	
50 51	[00:32:19.11] Rebecca: [There should be some way]
52	[00.52.19.11] Nebecca. [There should be some way]
52	[00:32:19.21] Interviewer: [There should be some way to make it]
55	[00.02.10.21] Interviewer. [There should be some way to make it]
55	[00:32:21.26] Rebecca: Yes.
56	
57	[00:32:22.17] Interviewer: OK
58	
59	[00:32:23.08] Rebecca: That's what I'm thinking at least, that I /OK/ would hope
60	it would be.
61	
62	[00:32:26.11] Interviewer: OK. So then, um, what if we just pretended for a
63	minute, that that, like=
64	
65	[00:32:34.17] Rebecca: =That that works=
66	
67	[00:32:35.00] Interviewer: =That that worked=
68	
69	[00:32:35.26] Rebecca: =OK=
70	
71	[00:32:36.09] Interviewer: =OK. So then, um. So then you might write like, to
72	make an array of, actually what would we call this? This is=
73	[00:00:47.04] Debases arrest of resistance language
74 75	[00:32:47.24] Rebecca: =array of pointers, I guess=
75 76	[00:20:49.00] Interviewers OK (under breath) pointers. It'd be well So The
76 77	[00:32:48.28] Interviewer: =OK. {under breath} pointers. It'd be, well. So. The
77 78	the one we had was like {writing} int, star p, um, it would be some number, um,
78 79	and I guess that'd be it in order to just declare /Yes/ that right? OK. And then you're saying, how would you like access an element of it?
80	you're saying, now would you like access an element of it?
81	[00:33:12.02] Rebecca: Uh, well, what I was thinklike if I wanted to like, save it
82	or whatever, /Yeah/ I could make a while loop, {drags hand across the table in
83	what's presumably a scanning motion} scan in thescan in the data from the
84	album, /OK/ uh, which is, I can write it [if you want]
85	
86	[00:33:23.10] Interviewer: Sure, go ahead
87	
88	[00:33:25.14] Rebecca: Um, yeah so, it was=
89	
90	[00:33:27.12] Interviewer: Oh, sorry, just have to

91	
92	[00:33:28.15] Interviewer: Oh
93	
94	[00:33:28.27] Interviewer: It's /Oh, OK/ one of those annoying ticks, but it works
95	best cause of the camera if, ah, /Ah, OK/ if that's pointing away from your hand
	best cause of the camera ii, an, 7An, or in that's pointing away nonryour hand
96	
97	[00:33:32.04] Rebecca: OK
98	
99	[00:33:32.23] Interviewer: That's fine
100	
101	[00:33:33.25] Rebecca: Um, there was album, and then, so there was, uh,
102	percent d, and percent s, and then give those names, just, I'll just call it number,
103	and title. /Mmmhmm/ And so, at least, myuntil it does not equal EOF, and then
103	my thinking at least, is you should be able to, um, say that
104	my thinking at least, is you should be able to, and, say that
	[00:04:00 10] Debaases lister is of ill (membrane ( secola sub the title, and then you
106	[00:34:00.12] Rebecca: "star p of i" /mmhmm/ equals, uh, the title, and then you
107	just do i++, so then it'll move to the next one {makes looping gesture with left
108	hand} /OK/ and you just keep saving each of the pointers {left hand makes
109	horizontal chops in the air, like rungs down a ladder}
110	
111	[00:34:19.01] Rebecca: in the array {makes final horizontal chop} to a title
112	/Mmmhmm/ {right hand makes pinching motion, creating a line between left and
113	right hands that parallels the table-top and points to her right}
114	
115	[00:34:21.00] Rebecca: And {right hand makes a large loop back} you just
116	increment by 1 {right hand makes a cycloid forward, like counting dots on a line}
117	until you reach the end of file.
118	
119	[00:34:24.13] Interviewer: OK=
120	
121	[00:34:24.16] Rebecca: =Like *that* {palms open, facing chest, pointing at
122	herself with both hands} would make sense to me.
123	
124	[00:34:26.16] Interviewer: So then, like, what would go in p of one would be the
125	first title we read in /Yes/, uh, would, when the while loop runs again, does it get
	a fresh [line from that]
126	
127	
128	[00:34:35.16] Rebecca: Yeah, because uh, what the while loop does is it reads in
129	the line /Mmmhmm/ and then it'll go back down to the next thing /OK/ then read
130	in the line, until it reaches the End of File.
131	
132	[00:34:47.28] Interviewer: So as you step through this loop /mmhmm/ {points to
133	i++} i keeps going up by one=
134	, , , , , , , , , , , , , , , , , , ,
135	[00:34:52.11] Rebecca: Yes.
100	

- 136
- 137 [00:34:53.10] Interviewer: Uh=

138

139 [00:34:54.03] Rebecca: =And the lines keep going down, so, that way, the first 140 line is going to be, uh, element zero /OK/ the second one'll be element one=

141

142 [00:35:02.18] Interviewer: Mmmhmm. I mean, that seems like pretty sensible to 143 me. /Yeah/ that, that if, if our initial idea is right /Uh-huh/ and that you should be 144 able to have an array of pointers, then if it works like an array you should /be 145 able to/ be able to stick stuff /Yeah/ somehow in it. Um. OK.

146

147 [00:35:19.00] Interviewer: So. What would. I mean it seems like this gives us at 148 least some, some idea of where you might go /Yeah/ if you were to, if you were 149 to do the next bit of the assignment. How do you feel about it?

150

151 [00:35:33.24] Rebecca: I feel good that I actually have somewhat of a possible 152 idea. Like, I was completely lost before this, /OK/ so.

153

154 [00:35:41.24] Interviewer: Do you feel like you came up with this on your own?

155 156 [00:35:43.26] Rebecca: I mean I definitely think you helped, cuz you told me, 157 like, uh, to just pretend that the first part's right, what would you do? And I think 158 that helped me, cuz right, I just kept getting stuck on the fact that I couldn't get 159 past the one part. /OK/ What do I do on the next part?

160

[00:35:58.15] Interviewer: Right. /So/ But, but I mean, but we don't, and I'll be 161 162 completely honest, I don't know if this is right. /Yeah. Yeah/ So, in other words, I 163 did tell you to pretend, but we're both still not sure that that's right.

164

165 [00:36:10.05] Interviewer: So, it sounds like part of what helped you was just, if we made a choice to say "well, this might work, so if it does work" =what would 166

- 167 be the next thing=
- 168

169 [00:36:16.27] Rebecca: =what would you do=