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OfficeHours_IS4_20150914_Seg02.pdf

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Setting: in the corner of a room. IS4 is helping S1 with matrix questions Participants: S1 is the boy in pink. IS4 is the boy in dark gray 0:00 Xxx S1: I just have a couple of questions from the homework. Xxx um:= Xxx IS4: =the homework is due:-Xxx S1: uh: Xxx Wednesday. Xxx IS4: Wednesday. Xxx S1: I mean I- I understand ((unclear)) so I'm not lost like I was with the (mark off chain). Xxx Xxx um: trying to find the page. Xxx Xxx one second. Xxx [page 90 Xxx IS4: [mark off chain is pass now Xxx S1: this is now the-Xxx IS4: (chromosome) matrix. Xxx S1: matrix yea. Xxx S1: ((unclear)) one second. 0:40 Xxx S1: so this is the first page. Xxx [I know this-Xxx IS4: [96 ((flips pages)) so it's fine. Xxx Xxx S1: ((unclear)) I'm good.= Xxx IS4: =ok Xxx S1: starting on starting the next part. (so I turned it into)-Xxx it's got the x and y and this-XXX Xxx so I know this is its own matrix. this can be it's own matrix Xxx XXX right?= Xxx IS4: =yea Xxx S1: and then do I create this, Xxx this- this is-Xxx IS4: you can('t).

```
XXX
         um:-
Xxx
         you know what uh:-
         when you write this system
Xxx
        of equations
Xxx
         in matrix form.
XXX
         so you should-
Xxx
Xxx
         you should write the three ((unclear)) in the column
Xxx
         (column).
Xxx S1: so- so I'm gonna add the X 1 X 2 X 3 to this.
Xxx IS4: yea 2 3 I think-
       I think this- I think this is-
Xxx
Xxx S1: ((writing)) x 2 x 3
Xxx IS4: no- no- no- no-
Xxx S1: no.
Xxx IS4: you don't have to do that.
Xxx S1: I don't have to do that ok.
Xxx IS4: um now uh
       ((starts looking for something))
Xxx
1:52
Xxx IS4: can I use this?
Xxx S2: sure!
Xxx IS4: so um you should write the unknowns in- in this form.
     X 1 X 2 X 3=
Xxx
Xxx S1: =right
Xxx IS4: I think you-
Xxx S1: yea- no- <yea yea yea>
         <I figure to do that but then there's also a Y> \,
Xxx
         so do I create separate matrixes?
Xxx
Xxx
         one
         so like this to be this times-
Xxx
Xxx IS4: yea Y-Y you can just leave to the right side.
Xxx S1: right
Xxx IS4: you don't have to-
Xxx S1: so I'm going to do this then I'm going to do this=
Xxx IS4: =yea
Xxx S1: this is ((unclear)) X.
Xxx IS4: do not focus on the ((unclear))
Xxx
        just-
Xxx S1: ok so and then-
Xxx IS4: and then one you can use the same (tree).
         the same (tree) like ((reaches over)).
Xxx
```

```
Xxx
         ((but ends up looking at S1's work))
Xxx S1:
         Х З
Xxx IS4: uh no no
       the left side should- the left side should
Xxx
        [(write) ((unclear))
Xxx
Xxx S1:
        [oh so just do it on this side
Xxx IS4: so- so- so just multiple this and this.
Xxx S1: so yea=
Xxx IS4: =yea
     so this X means this column.=
Xxx
Xxx S1: =no I'm just naming that matrix.
     so ((starts mumbling as he writes things down))
Xxx
Xxx IS4: yea (.) so you you don't have to (.) write (this),
Xxx
         you can just ignore this.
         it is-
Xxx
Xxx
         this matrix times this matrix.
Xxx
         [so
Xxx S1: [and that equa:ls-
Xxx IS4: that equals this=
Xxx S1: =this matrix times=
Xxx IS4: =times Y 1 Y 2 Y 3=
Xxx S1: =right
Xxx IS4: and then plus this plus this column matrix
Xxx S1: right ((writes things))
Xxx IS4: oh now the- there are mistakes here.
Xxx S1: ((unclear))
Xxx IS4: ((points))
Xxx S1: oh yea that's right
Xxx IS4: minus minus [ so when there's a minus you [should add
Xxx S1:
                     [oh
                                                  [right
Xxx add
Xxx IS4: the minus side in the matrix.
Xxx S1: ((mumbles to self))
Xxx IS4: yea exactly
Xxx S1: ((mumbles to self))
Xxx IS4: no now first you should run this matrix.
Xxx S1: oh now- now (see what this matrix equal).
Xxx IS4: so
     [so ((reaches over))
Xxx
Xxx S1: [so so
Xxx IS4: the same method.
```

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```
Xxx S1: ((mumbles to self))
4:55
Xxx IS4: yea so- so this is the left side the equation.
Xxx S1: right now I want [to do the right.
Xxx IS4:
                         [so now you have to focus on the
Xxx right side.
Xxx S1: so right side this would be-
Xxx IS4: right side.
Xxx it is very similar to the left side.=
Xxx S1: =right
Xxx ((mumbles to self))
Xxx IS4: copy this.=
Xxx S1: =yup
Xxx IS4: divide 2 by 3
Xxx S1: ((mumbles to self))
Xxx IS4: 6 minus 4 4
Xxx S1: 4
Xxx IS4: I can-I can read you.
Xxx and 2 0 minus 2
Xxx
         and then you can (times) [1
Xxx S1:
                                [1
Xxx IS4: yea
Xxx S1: ((mumbles to self))
Xxx IS4: the last term is-
Xxx S1: ((mumbles to self))
6:00
Xxx IS4: wait- wait I would recommend that you uh-
Xxx you should write all the terms.=
Xxx S1: =oh ok
Xxx IS4: yea and it-
Xxx S1: so now do ((unclear))
Xxx IS4: yea
     (and you need to group that because)-
Xxx
Xxx S1: so now how do I do this matrix in?
Xxx IS4: you- you just write it in column.
    [pa- pa- pass
Xxx
Xxx S1: [just write it so so I just say T
Xxx IS4: you can plus T yea.
Xxx S1: plus T
Xxx IS4: and this T is ((looks)
Xxx (220T)=
```

```
Xxx S1: =yea
Xxx IS4: ((unclear))
Xxx this min- minus 1.
Xxx S1: oh so ((writes))
6:43
Xxx IS4: so this equals this=
Xxx S1: =plus that=
Xxx IS4: =yea
Xxx S1: ok
Xxx IS4: so you can get the equation.
Xxx S1: let's say I want to say A times Y plus C,
Xxx IS4: yea C times Y plus C.
Xxx S1: I'm gonna say B times-
Xxx IS4: B times Y.
Xxx S1: [equals T
Xxx IS4: [equals T times A X=
Xxx S1: =oh
Xxx <I can just say that I don't have to write it>.
Xxx IS4: you can just write A X so it's-
Xxx S1: [ok
Xxx IS4: [done.
Xxx S1: ok so I don't have to rewrite- redo the matrix.
Xxx IS4: yea you don't °have to.=
Xxx S1: =ok
Xxx IS4: so when when (you) do [the B part
Xxx S1:
                              [((reads directions))
Xxx
         you- you should put-
        uh ((unclear)) these parts.
Xxx
Xxx to the left side.
Xxx S1: ok now I would [multiply A and B.
Xxx IS4:
                       [you should put
Xxx S1: I mean A- A-
Xxx IS4: so- so you can- you can combine this matrix
Xxx and this matrix-
Xxx S1: right so (I can) multiply A and B.
Xxx IS4: yea and- and they ((unclear))
Xxx
     times X Y and there- there is 6 minus-
Xxx S1: oh so multiple A X by B Y.
Xxx IS4: multiply A X-
Xxx S1: multiply A X so I didn't- I didn't draw B Y.
Xxx IS4: yea
```

```
Xxx S1: °but (I should do) B Y.
Xxx
         and then I just multiply A X by B Y
Xxx
         and then figure.>
        so this would be like-
Xxx
Xxx this would be 5 Y.
Xxx IS4: 5 yea
Xxx S1: so this would be 10 X 1 Y 1-
Xxx IS4: <no no no>.
Xxx S1: no so-
Xxx IS4: you should write the matrix in this you know-
        ((writes))
XXX
        this X is this matrix.
XXX
        this Y is this matrix.=
XXX
xxx S1: =right
xxx IS4: A and B are this two matrix.=
xxx S1: so
xxx IS4: it is-
xxx S1: so multiple and B-
xxx get the numbers put them together-
xxx IS4: no you- you don't have to [multiply them.
xxx S1:
                                 [I don't have to
xxx IS4: you put them together in a matrix.
xxx S1: oh!
Xxx oh ok so-
Xxx IS4: put together in a matrix.
Xxx S1: just like this [((speaks math))
Xxx IS4:
                       [so it become 3 by 6
Xxx S1: right so I want to say-
Xxx IS4: 3 by 6 matrix
Xxx S1: so wanna combine this-
Xxx IS4: yea so you just write 3 minus 2
Xxx and you just write-
Xxx S1: 3 minus 2 and I ((unclear))
Xxx IS4: you go
Xxx you you don't finish.=
Xxx S1: =ok
Xxx IS4: and you just you go in 5 2
Xxx S1: <(oh right here)>?
Xxx IS4: yea
Xxx S1: 5 2 3
Xxx IS4: 5 minus
```

```
9:00
Xxx S1: 5 ((unclear)) negative
Xxx IS4: minus 3 ((checks))
Xxx
     so you-
Xxx S1: combine oh just combine the two.
Xxx IS4: combine (these two matrix).
Xxx S1: ((mumble))
Xxx
        5 2 negative
Xxx there's two zeros.
Xxx IS4: yea.
         and you times- times the matrix of the unknowns.
Xxx
Xxx
       and now the unknown is 6 6.
Xxx S1: right
Xxx [((mumbles to self))
Xxx IS4: [so now you can write it X 1 X 2 X 3.
Xxx
       ((unclear))
Xxx
         you- you should write this (three) time in here.
Xxx S1: write it underneath.=
Xxx IS4: =yea
Xxx S1: oh oh don't make it two columns-
Xxx IS4: because-
Xxx S1: just the one column.=
Xxx IS4: =yea
Xxx S1: ok
Xxx IS4: so there are two columns here.
       so these two columns cannot be-
Xxx
Xxx cannot be modified.=
Xxx S1: =right
Xxx IS4: yea so
       it is a 3- 3 by 6.
Xxx
Xxx
        (this is) 6 by 1.=
Xxx S1: =right
Xxx IS4: so it (can be multiplied) ((Alt transcription: cannot
xxx be modified))=
Xxx S1: =right
Xxx ((writes))
Xxx IS4: and this equals (this two)
Xxx S1: oh ok and then
    ((mumbles to self))
Xxx
Xxx IS4: can copy this,
Xxx just copy it.
```

```
Xxx S1: ok
Xxx IS4: so
Xxx IS4: so do you know why- why do this?
Xxx S1: well no this this is <where I get confused>
Xxx
        ((unclear))
        I didn't know about like uh-
Xxx
Xxx
         I didn't know how to-.
Xxx
         which way you put it
Xxx
         do you in a column,
XXX
        or in a row.
Xxx IS4: column uh so-
Xxx S1: like why you can also-
Xxx since this could be X 1 this could be X 2 X 3=
Xxx IS4: uhuh
Xxx S1: why don't you put it this way?
Xxx and then multiply it like that?
Xxx IS4: yea so- so-
Xxx it is defined.
Xxx
        it is definition to (matrix) by (modification).
Xxx
         so you just do it.
         and wha- why we get this matrix
Xxx
         in fact we uh-
Xxx
         ((flips pages))
Xxx
11:27
Xxx IS4: yea because-
         in fact we put these three-
XXX
         these three terms on the left.
Xxx
         you know it is uh-
Xxx
         sorry there was a mistake.
Xxx
         you should a add a minus sign,
Xxx
Xxx
        on this line (entry).
Xxx S1: oh on the Y entry.=
Xxx IS4: =yea
         because- because you
Xxx
Xxx
        when you put this ((unclear)) left.
Xxx S1: so then [that's going to make everything negative.
Xxx IS4:
                 [so then
Xxx
        yea
Xxx S1: so that would be-
Xxx IS4: be everything negative.
Xxx S1: [except for these ((unclear))
```

Xxx IS4: [and and minus three ((unclear)) 12:00 Xxx S1: minus 4 (is what I want) Xxx IS4: [positive to um-Xxx S1: [is it negative Xxx 2 0 2 0 ((unclear)) xxx IS4: yea Xxx S1: so this becomes a positive 2. Xxx everything else becomes negative. Xxx IS4: everything is negative . Xxx S1: and ((writing)) Xxx IS4: yea minus minus. Xxx S1: no that was already negative so that stays positive. Xxx IS4: uh ((checking)) yea yea yea Xxx because-Xxx when-Xxx S1: cause you're moving it over Xxx [to the left side of the equation. Xxx IS4: [yea left side Xxx SO Xxx S1: so what you should do is Xxx really do this algebraically on paper first. and move everything to the left side. Xxx Xxx and make matrix out of it. Xxx IS4: yes yes= Xxx S1: =ok Xxx IS4: the form the form is very clear now.= Xxx S1: =right Xxx IS4: it is ((unclear)) = Xxx S1: =right Xxx ok so now ok so-Xxx you have to multiply these out. uh you see how this has a 4-Xxx has a 4 limits in each row? Xxx Xxx IS4: uhuh Xxx S1: and this only has three? Xxx IS4: yes Xxx S1: how do you multiply it out? Xxx IS4: that that doesn't matterbecause, Xxx the most important part-Xxx

```
Xxx
         it is the three ((reading))-
Xxx
         oh.
Xxx S1: you have to multiply it out-
Xxx IS4: it- it doesn't even exist.
        you know (if possible) so-
Xxx
        it isn't isn't possible.
Xxx
Xxx S1: so it's impossible.
        they have to have the same number right?
Xxx
Xxx IS4: yea so-
Xxx S1: so- so you can't multiply these two.
Xxx [so A and B you can't do.
Xxx IS4: [yea you cannot you cannot.
Xxx S1: you can do you can do A and C.
Xxx IS4: [A and
                                      ΓC
Xxx S1: [because they have same number [(elements)
Xxx so I would do it this way,
         so the five would go against the 1.
Xxx
         the 4 against the 2.
Xxx
         and the 1 would (against) the 3 right?
Xxx
Xxx IS4: uh:
Xxx S1: ((something going down?))
Xxx IS4: no no
Xxx
         1 times 5.
         2 times 1.
Xxx
Xxx
         3 times 3.
Xxx
         and 4 times 5.
Xxx S1: oh so working that way go down.
Xxx IS4: yea
Xxx S1: work this way down.
Xxx IS4: this way this way
Xxx S1: right so going across on A.
Xxx down on C.=
Xxx IS4: =yea
Xxx S1: ok so that's-
Xxx
       <so unless they have the same number (development)</pre>
Xxx in each row I can't do it>.=
Xxx IS4: =yea
Xxx S1: ok so that's what-
Xxx that's what I got confused wasn't sure.
Xxx IS4: you- you just remember like
Xxx ((grabs notebook))
```

```
M times M matrix.=
Xxx
Xxx S1: =right
Xxx IS4: and second one
       is M times M by P.
Xxx
       only these two are equivalent.=
Xxx
Xxx S1: =right
Xxx IS4: only like only like in this condition.=
Xxx S1: =right
Xxx
        so that's (the only case).
        ((mumble))
Xxx
Xxx
        so now-
         the same thing.
XXX
         ok so this one gives you the base.
Xxx
Xxx
         A just compute matrix.
         computing matrix tells you how to-
Xxx
Xxx
        how much each person ((unclear))
Xxx IS4: ((starts reading it himself))
Xxx S1: <so I'm gonna take that against this>.
Xxx IS4: this and this yea.
Xxx S1: this right
Xxx
         so then this ((reading))
Xxx
         so I would take that and go by this.
         but I can't be because they don't have the same-
Xxx
Xxx IS4: uh: uh:
Xxx
         ((reading the question to self again))
15:00
Xxx
         yea you should (multiply) this-
Xxx S1: this-
Xxx IS4: so- so this will put in first ((unclear)).
Xxx S1: right but- but this only has two elements
        this has three.
Xxx
Xxx IS4: yea but that- that you see.
       this this doesn't matter.
Xxx
Xxx
        this doesn't matter.=
Xxx S1: =right
Xxx IS4: the only important thing is that
Xxx
       M equals M so
Xxx
         this is 2 times 2.
         and this is
Xxx
         2 by 3.
Xxx
         so we can ((unclear)).
Xxx
```

```
Xxx S1: ok cause this is 2 by 2 and this is 2 by 3.
Xxx IS4: ((points))
Xxx S1: the- the this is 2 by 2 this is 2 by 3.
Xxx IS4: yea
Xxx S1: ok so I go like this-
         I go like tha:t-
Xxx
Xxx IS4: uhh:
Xxx
         1- 1,000 times 5-
Xxx
         plus 500 plus.
Xxx S1: 4
Xxx times 4
Xxx S1: so- so I go across this going down.=
Xxx IS4: =yea
Xxx S1: across down.
         and then same thing across down.
Xxx
Xxx
        [across down across down
Xxx IS4: [yea
         across down.
Xxx
Xxx S1: and then I do this for each-
Xxx
         and then the last one is these two
         <(multiple by each other)>.
Xxx
Xxx
         across down.
xxx across down.
Xxx IS4: uh the- the last one should be-
Xxx S1: these two.
Xxx IS4: no no [no
Xxx S1:
                    [huh
Xxx IS4: the this one um I think should the three-
Xxx
         you mu-
         first uh (let me see).
Xxx
Xxx
         ((reads))
Xxx
         um:
Xxx
         ((pause))
16:35
Xxx
         first you need this times this.
         and and the result-
Xxx
Xxx
         [then times this.
Xxx S1: [(this times this)
Xxx
         so you do this ((unclear))
         ((checks phone))
Xxx
         ((pause))
Xxx
```

```
ok! and then
Xxx
Xxx IS4: so or you can ((unclear))-
Xxx S1: right first I go to these two and then-
         see the result and multiple by that.
Xxx
         (give me the product)) ((unclear))
Xxx
         ok and then
XXX
17:30
Xxx
         so: to figure out the edges of a-
Xxx
        [is basically (expanding trees)
Xxx IS4: [((unclear)) =
Xxx S1: =yea
Xxx
         so its been a while since I've done this.
Xxx
         um:
Xxx so this mean it is-
Xxx IS4: you you didn't catch it?
Xxx S1: this one we did last class
     and I was late to last class.
Xxx
Xxx IS4: o:h
Xxx S1: so
Xxx IS4: eh
Xxx
     did you read book?=
Xxx S1: =yea
Xxx
         I went through it I wen-
Xxx IS4: so so um: it can be (explained)
18:00
Xxx
        very simple.
Xxx
         so now uh
        there are only 2 elements (.)
Xxx
        in the matrix.=
Xxx
Xxx S1: =right
Xxx IS4: (zero) and one=
Xxx S1: = mhm
Xxx IS4: and if- and if it is one being like
        A I J-
Xxx
Xxx
         like A I J equals 1.
XXX
XXX
         that means link between-
        the no- no the number I.
Xxx and no the number J.=
Xxx S1: =mhm
Xxx IS4: so
Xxx uh now-
```

```
check- check this number.=
Xxx
Xxx S1:
        =mhm
Xxx IS4: that means the-
       there is a link between the number
Xxx
Xxx
         1
xxx and number 4.=
Xxx S1: =right
Xxx IS4: yea so you can ((writes))
Xxx
        write this
       if it is 1 2 3 4
Xxx
Xxx there is a link between 1 and 4
Xxx S1: [so (they're connected)
Xxx IS4: [link ((unclear))
Xxx S1: ok so-
        this tells me how many vertex-
Xxx
Xxx how many points to create.
Xxx IS4: um ((shakes head)) it- it-
Xxx S1: vertex.
     [this is going to tell
Xxx
Xxx IS4: [the the number
       the number of the vertexes is
Xxx
Xxx
        determined by the
         by [the dimension.=
Xxx
Xxx S1:
           [((unclear))
Xxx
         =right
Xxx
    [so you go down the go down the column
Xxx IS4: [so so its four=
Xxx S1: =right and then
    so there's- there's only going to be 3.
Xxx
Xxx IS4: yea yea
Xxx S1: right
Xxx
        so this tells you where to connect it.
        for instance
Xxx
Xxx IS4: yea and and one
Xxx
        [tell
Xxx S1: [three three
Xxx IS4: one tells you ((unclear:how to command))
Xxx S1: right
        3 2 are connected for instance
Xxx
Xxx IS4: 3 2 yea
Xxx S1: right so
```

```
Xxx IS4: 3 2 and
Xxx and and
Xxx S1: and it doesn't make a difference
    which one you label 1 2 3 4 right?=
Xxx
Xxx IS4: =it doesn't matter.
Xxx S1: no ok
Xxx IS4: [you you just can you know
Xxx S1: [right it's been a couple years since I done this
Xxx so it's like-it's like fuzzy,
Xxx IS4: uhuh
Xxx S1: but that's ((unclear)) cause I did this
Xxx
    [when I did foundation
Xxx IS4: [((unclear))
Xxx S1: right
         so that's what I want to make sure
Xxx
Xxx
         ((mumble))
         this one is the same this one I'm just-
Xxx
Xxx IS4: y-you can interpret into the matrix form.
Xxx S1:
         so so you just [make so I'm doing this
Xxx IS4:
                        [yea
Xxx S1: this I'm doing this this I'm doing this-
Xxx
         just putting in matrix form.
Xxx IS4: yea
Xxx S1: ok
     so for instance
Xxx
Xxx IS4: so you get a 6 by 6 matrix.
Xxx S1: so yea right get a 6 by 6 [((unclear))
Xxx IS4:
                                 [6 by 6
Xxx and you can label this as 1,
        A B C D E F and 1 2 3
Xxx
Xxx S1: and then when it saids compute the uh-
Xxx
        cause this- this I'm using this one for three-
Xxx
        uh E.
Xxx IS4: yea
Xxx
         oh
Xxx
         this problem h- has a more complex (.) subject-
Xxx S1: yea cause you-
Xxx IS4: ((unclear)) compute the square the-
Xxx
         the square (of) the matrix.
Xxx S1: oh so you just multiply by itself.
Xxx IS4: yea
```

```
Xxx
         [multiply by itself
Xxx S1:
         [ok so
Xxx
         this create the matrix and then multiply by itself
         you'll know what the answer is.=
Xxx
Xxx IS4: =no no no
         you ((reads something outloud))
Xxx
Xxx
         ((math term)) do you know what this mean.
Xxx
         ((math term))
Xxx S1: it means um-
Xxx IS4: so (.) the there is (route) (between) A and C=
Xxx S1: =right
Xxx IS4: this
Xxx
      but-
Xxx S1: you- you- you can go you-
Xxx
         there's another way to get to C from here.
21:00
Xxx IS4: but-but you can go another way.
Xxx like A from to D and
        D to C.
Xxx
Xxx
        [so (one is two)
Xxx S1:
        [A to D D to C.=
Xxx =right
Xxx IS4: so it is- is ((math term))
        but- but
Xxx
Xxx
         if you go this way.
Xxx
         A D B C
        it will be a ((math term)).=
Xxx
xxx S1: =right
Xxx IS4: because there are three
Xxx S1: so [so how many points you pass through to get to C
Xxx IS4: [yea
Xxx S1: so you go through point D to go through point C.=
Xxx IS4: =yea so it is ((math term))
Xxx and A B C is ((math term)).=
Xxx S1: =ok so-
Xxx IS4: so in- in-
Xxx S1: ((reading, so IS4 waits))
         (so if I got a two in the answer)
Xxx
        then I know there's two.
Xxx
Xxx IS4: um:
Xxx S1: (no no not asking you for the answer)
```

```
Xxx
         I want to draw the graph out.
Xxx IS4: uh ((flips))
Xxx S1: so [use this one
Xxx IS4: [I think you you should read the book
Xxx S1: which ((unclear))
Xxx IS4: uh ((unclear))
Xxx example 1 part ((unclear))
Xxx S1: ok so this-
Xxx IS4: so so so you read this
     you find ((unclear)) example.
Xxx
Xxx S1: ok!
Xxx
         thank you.
Xxx
         because yea the biggest thing was not exactly
Xxx
         which way to multiply it out,
Xxx IS4: oh yea
Xxx S1: so I'm going across,
         and then down.
XXX
Xxx
         the left [matrix I'm going I'm [going across,
Xxx IS4:
                   [so
                                      [yea
Xxx
     [the first matrix across
Xxx S1: [and then the second matrix going down.=
Xxx IS4: =yea
Xxx S1: ok so just and then (constructing how to)-
         how to construct this.
Xxx
     that's where I was a little confused on.
XXX
Xxx IS4: yea
Xxx S1: alright thank you so much.
Xxx IS4: you're welcome.
```