The purpose of this questionnaire is to help the instructor improve this course for future semesters. As a result, we are interested in descriptions of problems and suggestions for improvements that can help improve this course even in future offerings. As much as possible, please try to separate comments on the language design, on the web-based language implementation (including error messages), and the instructional materials. Do not write your name on this questionnaire.

- 1. Student background: Did you have any computer programming experience before taking this course. If so, please describe your background and level of expertise.  $N_0$
- 2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

It seemed simple, which was helpful. For the most part, commands made logical sense, as they clid what it seemed like they would. It was avorall pretty supportive of learning, though this comes with the fact that I have hever seen any other programming languages.

Many of the error messages are whileful, and often times have it more confusing. Errors will refer to things outside the programs we are writing, which makes then tough to debug. Obviously, it builds very slow. Ande from that, the use interface was well designed. Have to right-click on save was bothersone but not a real problem.

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

I think it would be helpful to actually write more code somehow during the veek. There were the programming problems in the book, but often they did not have answers. Otherwise, it was helpful.

5. Any other thoughts about Grace and this class so far?

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1. Student background: Did you have any computer programming experience before taking this course. If so, please describe, your background and level of expertise.

I dablied in busic programming a comple of times but did not been enough to kel like I knew much about (5.

2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

Steroths: more logical user interface

less noise laby easier for as, labs mer probably easier for as, henbreaks: . It's amonging flood (X@Y) is a point in space but for all other uses of x & y as dimensions you use (X, Y).

Build times are annoying.

overall the language supported my learning in object-oriented programming.

3.	What did you think						
	weaknesses of this	implementa	tion? What o	could be change	ed to make it a	ı better envi	ronmen
	for novices learning	g to program	1?			<b></b> .	
	I liked like	the	neb	Imploment	ation =	If mad	le ne
	1. likeer	( )	^	Tu			
	C. l like	0~	programs	her	Stord	0~	O/
	teel		. 0		1	- 15	
	1000	- 10	F 0-	Ho n	ralline	142014	

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

I would have liked the text to be rid of James "bongs," so only grace has ever teatured in examples and practice problems.

5. Any other thoughts about Grace and this class so far?

and

I am unsome how easy the truston to jara will be but I teel like I know Grace really well!

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1. Student background: Did you have any computer programming experience before taking this course. If so, please describe your background and level of expertise.

I had absolutely zero composer programming experience

2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

Strugths

The Lightax was very straight a

forward and logical

Easy to learn

The error missinges were uncloser

Seemed very picty about Pract wording, identation, Ptc.

There should be a way to create folders for progras

Stringths weaknesses

antomatally sous saving is a little charter

program in browser oro way to organize prosvency

in browser

A . Here to und a notates

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

Anterials were good. The grace text book still has Juste answers to the homework, house.

5. Any other thoughts about Grace and this class so far?

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1. Student background: Did you have any computer programming experience before taking this course. If so, please describe your background and level of expertise.

My only experience was a little bit of Self-taught.
Python and some Morthematica.

2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

In a lot of intangible ways Grave is a very "clean" and accessible language. I liked the library for object-draw and the treatment of types ultimately made things easier. The main improvement I could suggest which is very important is suggest to which is very important is

The web imprementation was very estretic graceful (and aesthetic!)

Not much advice. It was already clear to use and I wouldn't change much

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

Improve the chapter on lists.

Its written in a creative, thoughtful way but be more direct with things at the beginning.

5. Any other thoughts about Grace and this class so far?

was worried it might not be good, but its been great!

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1. Student background: Did you have any computer programming experience before taking this course. If so, please describe your background and level of expertise.

I took a one semester online course in latro to programmy in Python last year.

2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

I transit object Pour and the case of creating and munipulating built—in objects was a big strength. The language seems to have all the built-he types that we needed for programs.

The layout is clean and easy to understudy but southers the error messages are vague and make delugsing difficulty this is especially true of internal compiler errors.

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

I thought the documentation was incredibly helpful in booking up healt-in types. The sample code was also helpful, but needs mondines comments so it can be easily understood when booking at it.

5. Any other thoughts about Grace and this class so far?

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2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

the syntax seems a lot simpler than other languages, it is fairly easy to write — I think that Grace has allowed me to learn the logic of programming without all of the completions of withy the code.

The slow compiler was a little arraying, but not actually a problem

having it online was nice because it allowed easy access to the compiler without having to download a lot of program, material

The error messages weren't very helpful

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

> \$ like that the textbook was unline (and free),
because it made it easy to secret for specific
examples
- sometimes it was difficult to find specific sample code,
so it would have been nice to have them all in
one easy to find list

5. Any other thoughts about Grace and this class so far?

seems much easier to learn than Java. Assuming I'm able to learn Java Assuming I'm able to learn Java easily, I would recomens that beginners start with this class.

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NO 03

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suggestions for changes in the language design?

It hard for me to compare with other languages
or really Judge this one since I have no precedent.

I would say that it would be helpful to try
amprove the serior messages if at all possible.

For the most part every thing seemed straight

It was great being able to access Once From any Compreter, However, andries drenback is that you need internet to rante Dogan, so, working on a line for example would be hard.

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

I would say that the book should oburning be completed but otherwise good. I strissed with lists the wost but I thought adequate time was spent on it. We may have spent too much the on recursion as we only use it in one label There hend from peers in higher up

5. Any other thoughts about Grace and this class so far? classes that you dent must be exc. tay 1 Sor you & it showed which was start.

-oved ne sumil ches so



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1. Student background: Did you have any computer programming experience before taking this course. If so, please describe your background and level of expertise.

No experience before taking this course.

2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

suggestions for changes in the language design?

C WCOKNESS World & the UTOT MCSSOGES I think!

Often not uny helptwl. Other then that thought

1) I hered for me towards (ause I have o

Change C & where.

The state of the s

how when sold without the the sold with

MILMONIA STATE OF THE STATE OF



weaknesses of this implementation? What could be changed to make it a better environment for novices learning to program? It was nice how access to it anywhere, as it was trustresses when is took a very long the to compile, which maybe was veel related, but for a new large 13 probably much suse since is was undested rowning. Also she makes or saw tiles was never bus howevered

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly? I think are area that could be for and a was the assess paramets, definitely are not understand these sety with at all.

Some another some the code might a niture to the code with the niture of the code should be supplied to the code where the code should be supplied to the code should be

5. Any other thoughts about Grace and this class so far?

Live rose how I like grove conserved to
there care 1721 now I have noting to
conserve it to

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I felt some of the shaplifications in terms of syntax none innecessary. By this I mean thing like harder if statement be fellowed by then, items in system of other languages if would just be off (condition):, while I recommend in motivation below making the syntax none like plain beginn, I felt like this has unnecessary. Another thing that was really frustpathy was that there is no sood:

IDE like edly se. Even below able to write it in a dext estimate it must be write to out of the comment like hard have been side; having to write to odd on a website was frustrating at these, though, I be feel like the language bild support my hudowstanding of the key fless of object-ordented grossamming.

3.		think of the w of this impleme arning to prog	entation? Wh					
	ioi novices le	arming to prog	;i aiii:					
			es a no			• *		
					The same			
		80 C C C C		3				
		8 - 6			edin, i e			
				e Ate.			e in Jaw	*
			d Harry States	*				
4.	What did you materials on t added? Wher covered more	he web) and le e there topics	ectures for th	is class? W	/hat mater	ials need to	be impr	oved or
•	covered more	quickly:						
		A Tax III						
		N						
Sole H					1901			
	y			Si v				

5. Any other thoughts about Grace and this class so far?

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nane

2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

It was simple to use , but the errors could be better.

I thought three good since it doesn't require an installation to worke with and it can be worked on any computer

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

Overall I thought the indirectional materials were helpful, the text book just needs to be completed.

5. Any other thoughts about Grace and this class so far?

Make the compiler laster

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None

2. What did you see as the strengths and weaknesses of the language Grace? Are there any aspects you found particularly well or poorly designed? Did the language support your understanding of the key ideas of object-oriented programming? Do you have any suggestions for changes in the language design?

It was averall a good experience working in Grace.

A Mill Company to the Comment of the

· increase compile speed

4. What did you think of the instructional materials (text, lecture notes, sample code, and other materials on the web) and lectures for this class? What materials need to be improved or added? Where there topics that needed to be explained more clearly or that could have been covered more quickly?

No complainte here, allur

5. Any other thoughts about Grace and this class so far?

Thank you for taking on the monumental took of creating maintaining Grave for our benefit: