Human Ethics Amendment Request Form

Protocol Number: 022079

Current Title: Efficacy of the support available for a software practitioner to review an

unfamiliar software code

Current Principal Investigator (PI):

Associated Department: *Computer Science

Note: Only the PI can submit these Amendments to the existing protocol. If they are no longer available, then a delegate of the PI will need to be setup. Please contact researchoffice@auckland.ac.nz.

FORM VERSION

V 1.2 12/07/2013

SECTION A: Description

A:1 Proposed Title (if different from current):

Understanding Code Review Decisions

- *A:2 Summary of changes please provide a numbered list of the proposed changes and how these changes vary from the approved application(s). (max 2000 characters including spaces).
- 1. To change the audience from code review stakeholders to any employee who works in a software development organization. Questions are modified to accommodate the new audience.
- 2. To change the focus of the survey from general details of code review to more specific details of code review. Questions are modified to accommodate this.

If more space is required, please attach a more detailed description of the amendment which allows the Committee to assess its significance.

Files of the following formats can be uploaded: .doc, .docx, .xls, .xlsx, .pdf, .jpg

- *A:3 Are personnel being added, removed or the PI changed as part of this Amendment? Yes 🗖 No🗹
- *A:4 Are any supporting documents (such as a PIS) being modified as part of this Amendment? Yes 🗹 No

Please ensure the new versions of all documents are uploaded in Section ${\bf C}$

v 6€°	ument Name:	*Upload	s amendment request. (.doc, .docx, .xls	, .xisx, .pui oi .jpg)
	cipant Information Sheet ey	66°		
	ation	661		

Appendix 1

EForm Name:Human Ethics Amendment Request Form - v1.2

Page:

SECTION C: Attachments

Section: Upload new versions of any documents that will be modified as part of this amendment request. (.doc,

.docx, .xls, .xlsx, .pdf or .jpg)

Question: Upload **File Name**: PIS.pdf

Qualitative Decisions Survey

Below is the Participant Information Sheet (PIS) for this survey. The University of Auckland takes its obligations to ensure research conducted by members of the University conforms to the highest ethical standards very seriously. This includes providing information to research participants about the goals and nature of the research, which is the purpose of the PIS. If you wish to participate, please read the PIS and indicate you have done so at the bottom of this page. The survey proper will begin on the next page.

PARTICIPANT INFORMATION SHEET

Project Title: Understanding qualitative decisions

Name of researchers: Assoc. Prof. Ewan Tempero, Dr. Kelly Blincoe, Ms. Sanuri

Gunawardena

Researcher Introduction

Dr Ewan Tempero is an Associate Professor in the Department of Computer Science at the University of Auckland. Dr Kelly Blincoe is a Lecturer of Software Engineering in the Department of Electrical and Computer Engineering at the University of Auckland. Ms. Sanuri D. Gunawardena is a student in the Department of Computer Science at the University of Auckland, working towards her PhD in Computer Science.

Project description

The nature of the qualitative decisions is that they are highly subjective. A qualitative decision varies based on many factors such as understanding, knowledge, and experience of the decision maker. The aim of this project is to identify the commonalities and the differences of decision making based on the personal backgrounds.

What we are asking

We would like you to answer a short, anonymous, web-based questionnaire that will help us to understand how you make qualitative decisions such as how you name things based on the provided information. This questionnaire will reveal the commonalities and the differences of decision making based on the personal backgrounds of the participants. We expect the questionnaire to take less than 30 minutes to complete.

Storage, use and reporting of data

The questionnaire data is completely anonymous. Submitting the questionnaire will be taken as consent to use the data for research. The data will be analyzed and the analysis of the data may be presented or published in academic venues such as journals and conferences. The data will be stored on a secure server at the University of Auckland indefinitely, but for a minimum period of six years. If the data is no longer useful after six years, then it will be destroyed by deleting the digital files.

Participation and right to withdraw

You may stop completing the questionnaire at any time. However, once you submit the questionnaire, your data cannot be removed since it is anonymous.

Results

If you would like a summary of the results, then there will be an opportunity to add your email address after the survey is complete. If you do this, the email will not be linked to your data in any way.

Contact Details

If you have any questions about the project, please contact the researchers.

Assoc. Prof. Ewan Tempero <e.tempero@auckland.ac.nz> +64 9 923 923 3765 Dr. Kelly Blincoe <k.blincoe@auckland.ac.nz> +64 9 923 4715 Ms. Sanuri Gunawardena <sgun571@aucklanduni.ac.nz> +64 22 589 3270

For any queries regarding ethical concerns you may contact the Chair, The University of Auckland Human Participants Ethics Committee, The University of Auckland, Research Office, Private Bag 92019, Auckland 1142. Telephone 09 373-7599 x 83711. Email: ro-ethics@auckland.ac.nz

Appendix 2

EForm Name:Human Ethics Amendment Request Form - v1.2

Page:

SECTION C: Attachments

Section: Upload new versions of any documents that will be modified as part of this amendment request. (.doc,

.docx, .xls, .xlsx, .pdf or .jpg)

Question: Upload

File Name: SurveyV1.2.pdf

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Dr. Kelly Blincoe <k.blincoe@auckland.ac.nz> +64 9 923 4715

Ms. Sanuri Gunawardena <sgun571@aucklanduni.ac.nz> +64 22 589 3270 For any queries regarding ethical concerns you may contact the Chair, The University of Auckland Human Participants Ethics Committee, The University of Auckland, Research Office, Private Bag 92019, Auckland 1142. Telephone 09 373-7599 x 83711. Email: ro-ethics@auckland.ac.nz APPROVED BY THE UNIVERSITY OF AUCKLAND HUMAN PARTICIPANTS ETHICS COMMITTEE ON 07 Nov 2019 for three years, Reference Number 022079.

Agreement I am 18 years of age or older and I agree to participate in this survey. O Yes O0 How will you rate your *programming expertise* according to the definitions given below? I have no programming knowledge or experience. O Novice: has little or no experience wants unambiguous rules to accomplish his/her is able to handle small, isolated tasks tasks **○** Advanced Beginner: has gained some experience can work more independently than a novice knows general principles in a limited context, but does not have a holistic understanding **Competent:** has a holistic understanding of the problem domain bases his/her work on deliberate planning and extensive past experience can apply general maxims (e.g. design patterns) easily to specific contexts O Proficient: has a vast amount of experience that he/she can intuitively apply to new can easily differentiate between irrelevant and important details constantly reflects on what he/she has done and revises own approach to perform better in the future O Expert: he/she is a major source of knowledge and information for others primarily works from his/her intuition

Q1 We use many nouns or noun phrases to refer to tangible or intangible entities in everyday conversations. The quality of these nouns or phrases have a significant effect on the understanding of the party that we are communicating with. For an example, if you need to buy a red apple, you

have to specifically ask for a "red apple" from the fruit vendor. If you use just "apple", the vendor might provide you a green apple instead. Thus, selecting your nouns/noun phrases specifically and meaningfully is vital.

In this set of questions, you are expected to select the most suitable noun or phrase to name the entity described by the given description, from the provided set of nouns/phrases. The context is a Bank ATM system. If you do not see the best suitable noun/phrase in the given list, select *None*. If you feel that the information given in the description is insufficient to make a decision, select *Insufficient Information*.

<i>п</i> пѕијјісіет туогтан	on.			
[x]				
Q1.1 Select the best su	iitable noun/phrase	e that matches the descrip	tion.	
	Account	Bank Account	None	Insufficient Information
Created by the bank for a customer to keep track of the amount of customer's money deposited in the bank and to withdraw customer's money from, when needed				0

Q1.2 Select the	best suitab	le noun/phra	se that matches	s the description	n.		
	AT	N/I	Automated ller Machine	None	Insuff Inform	ficient nation	
Acts as an interface between the customer and the bank and handles the interactions between the customer and the bank.	(0	0	0		0	
Q1.3 Select the	best suitab	le noun/phra	se that matches	s the description	n.		
	I O Ma	nager	Display Manager	Screen Manager	No	one	Insufficient Information
Displays instructions on the ATM screen and reads user input.	(0	0	0		0	0
Q1.4 Select the	best suitab	le noun/phra Customer	se that matches	s the description ATM User	n. Client	None	Insufficient Information
The person who uses the ATM.	0	0	0	0	0	0	0

	Transaction	Operation	Activity	Action	Bank Transaction	ATM Transaction	None	Insufficier Information
A deposit, withdrawal or another action performed by the ATM user.	0	0	0	0	0	0	С	0
Q1.6 Select t	the best suitable Account	_	se that mat Savings Account	ches the d	escription.	None		ficient mation
A basic type bank account that allows y to deposit money, keep safe, and withdraw funds, all whe earning interest.	nt You O it	0	0		0	0		0
Q1.7 Select t	Retiremen Account	•	ınt In 2 Re	ches the d dividual stirement account	escription.	None		afficient ormation
An account where you								

	Transaction Log	Transactions List	Log	None	Insufficient Information
An official record of the transaction history.	0	0	0	0	0
	ou have any comm e mention here. (O	ents/explanations ab ptional)	out the the answ	ers you selected	for the above
	•	-	out the the answ	ers you selected	for the above
	•	-	out the the answ	ers you selected	for the above

Q2 Now that you know what a best suitable entity name should look like, please select (according to your knowledge) whether the given entity name is the best suitable or whether a better name exists, for each of the entity name - description pair given below. If you feel that the information given in the description is insufficient to make a decision, select Insufficient Information.

	Best suitable	A better name exists	Insufficient information
Performance - An act of presenting a play, concert, or other forms of entertainment.	0	0	0
Ticket - A piece of paper or card that gives the holder the right to enter the theatre.	0	\circ	0
Person- A person who performs.	0	\circ	\circ
Cinema - A building or outdoor area in which plays and other dramatic performances happen.	0	0	\circ
User - A person who buys something from a shop.	0	\circ	0
Machine - A machine that dispenses small articles such as food, drinks, or cigarettes when a coin or token is inserted.		0	0
Food - An edible item.	\circ	\circ	\circ
Food Type 1 - "Canned food" from the food items that a vending machine dispenses.	0	\circ	0

Q2 Explain If you have any comments/explanations about the the answers you selected for the above question, please mention here. (Optional)

Description

CHARACTERISTICS of entities

Any entity has a set of data that characterizes it. We use nouns or noun phrases to refer to these characteristics. If we consider a university, it may have a "Name", "Address", "Lecturers", "Courses", etc. If we consider the "Address", it can be further characterized as "Building Number", "Street", "Suburb", "Province" and "Country". If we consider a single lecturer from the "Lecturers" that characterize the university, he/she may also have his/her own characteristics such as "First Name", "Family Name", "Responsible Subjects", etc. However, the "Name" characteristic of the university would not need its own characteristics because it is a simple characteristic that does not need further characterization.

BEHAVIORS of entities

Most entities also have behaviors associated with them. We use verbs or verb phrases to refer to these behaviors. Behaviors can be of two types:

- 1. If we consider a car, it can "move", "turn" and "reverse". When those behaviors happen, characteristics of the car such as location and fuel level change. Thus, those behaviors belong to the Car entity and they change the state of the car.
- 2. If we consider the same car, in order to check the fuel level, "check fuel level" behavior should be performed. At a glance, this behavior looks like it belongs to the Driver entity. However, since this behavior is revealing an information of the Car entity, it is closer to the Car entity. Thus, the right thing to do is to tie it with the Car entity as well.

Accordingly, we can tie a behavior to the entity that is changed by it or the entity that it provides information about.

LESSON (The most important part)

Accordingly, any system in the real world can be represented with a set of entities, and their

	Characteristic (noun)	ich are behaviors? Behavior (Verb)	Not Sure
Color	0	\circ	\circ
Withdraw	0	\circ	\circ
Height	0	\circ	\circ
Number of pages	0	\circ	\circ
Balance	\circ	\circ	\circ
Calculate sum	0	\circ	\circ
Explain If you have tion, please mention	any comments/explanations and here. (Optional)	bout the the answers you sel	ected for the above

Q4.0 Do you regularly use ATMs to perform transactions such as deposits or withdrawals?
O Yes
○ No
Description
<u>CHARACTERISTICS of entities</u> Any entity has a set of data that characterizes it. We use nouns or noun phrases to refer to these
characteristics. If we consider a university, it may have a "Name", "Address", "Lecturers", "Courses", etc.
If we consider the "Address", it can be further characterized as "Building Number", "Street", "Suburb",
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"Responsible Subjects", etc. However, the "Name" characteristic of the university would not need its own characteristics because it is a simple characteristic that does not need further characterization.
As explained above, a CHARACTERISTIC can be a simple one such as "Name", an entity such as "Address" or a collection of an entity such as "Lecturers".

Characteristics

In this set of questions, you are expected to identify the CHARACTERISTICS (nouns) that characterizes the entities given at the top. The characteristics are given on the left side. Select the entity that is characterized by each characteristic. Otherwise, if the characteristic does not make sense to you, select "The word/phrase is not meaningful"; if the item is a meaningful word or phrase but does not characterize any of the given entities, select "Does not belong anywhere"; if it is hard to decide, select "Hard to decide". PLEASE DO NOT GUESS OR ASSUME ANYTHING.

The column labels in the questions below are entities related to the Bank ATM system and few other options defined as:

Bank Account - Created by the bank for a customer to keep track of the amount of customer's money deposited in the bank and to withdraw customer's money from, when needed.

ATM - Acts as an interface between the customer and the bank and handles the interactions between the customer and the bank.

NM - The w NB - Meanin	- A deposit, word/phrase is ngful, but does	not meaning s not belong	r another action ful (Eg: xyz, s to any given e			er.	
Q4.1 Please	select the enti	ty (or the otl	her option) tha	t the characteris	tic belongs to	o the most.	
	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
Account Number	0	0	0	0	0	0	0
O4 2 Places							
Q4.2 Please	Bank Account	ty (or the oth	her option) tha ATM User	t the characteris Transaction	NM	o the most.	HD
Balance	Bank		ATM				HD
Balance	Bank Account	ATM	ATM User		NM	NB	HD
Balance	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
Balance	Bank Account select the enti Bank	ATM O ty (or the otl	ATM User	Transaction	NM tic belongs to	NB O the most.	0

			_	the characteristic			
	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
Interest Rate	0	0	0	0	0	0	0
Q4.5 Please s	elect the entity	(or the other	option) that	the characteristic	c belongs to	the most.	
	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
Transactions Log	0	\circ	0	0	0	0	0
Q4.6 Please s	elect the entity Bank Account	(or the other	option) that ATM User	the characteristic	c belongs to	the most.	HD
Transaction Type	\circ	\circ	\bigcirc				
							O
Q4.7 Please s	elect the entity	(or the other	option) that	the characteristic	c belongs to	the most.	O
Q4.7 Please s	elect the entity Bank Account	(or the other	option) that ATM User	the characteristic	c belongs to	the most.	HD
Q4.7 Please s Authentication Details	Bank Account		ATM				HD

Q4.8 Please	select the enti	ty (or the oth	er option) th	at the characteris	nc belongs to	o the most.	
	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
Card Number	0	0	0	0	0	0	0
Q4.9 Please	Bank	ty (or the oth	ATM	at the characteris	tic belongs to	o the most.	HD
	Account	711111	User	Tunsaction	1111	T(B	TID
Pin Number	0	0	0	0	0	0	0
Q4.10 Pleas	e select the end Bank Account	ATM	her option) t ATM User	hat the characteri Transaction	stic belongs	to the most.	HD
Choice	Account	0	User	O	0	0	0
Q4.11 Pleas	e select the end Bank Account	tity (or the ot	her option) t ATM User	hat the characteri Transaction	stic belongs NM	to the most.	HD
Current User	0	0	0	0	0	0	0

	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
ID	0	0	0	0	0	0	0
Q4.13 Pleas	se select the en		other option) th	nat the characteri			
	Account	ATM	User	Transaction	NM	NB	HD
Account	0	0	0	0	0	0	0
041479	11		d 2 \ 1		1 1	1	
Q4.14 Pleas	1		_	at the characteri	_		
Q4.14 Pleas	Bank Account	ATM	ATM User	Transaction	stic belongs NM	to the most.	HD
	Bank		ATM		_		HD
Name	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
Name	Bank Account	ATM	ATM User		NM	NB	HD
Name	Bank Account See select the end Bank	ATM	ATM User	Transaction	NM stic belongs	NB to the most.	0

Q4.16 Pleas	e select the en	tity (or the o	other option) th	nat the character	istic belongs	to the most.	
	Bank Account	ATM	ATM User	Transaction	NM	NB	HD
i	0	0	0	0	0	0	0
Q4.17 Pleas	e select the en	tity (or the o	other option) th	nat the character	istic belongs	to the most.	HD
	Account	71111	User	Transaction	14141	110	1110
Amount	0	\circ	\circ	\circ	\circ	\circ	\circ
_	If you have an lease mention		_	about the the an	swers you se	elected for the	above
Description BEHAVIOR	RS of entities						
	s also have bel Behaviors can l			em. We use verb	s or verb phi	rases to refer t	to these

1. If we consider a car, it can "move", "turn" and "reverse". When those behaviors happen, characteristics of the car such as location and fuel level change. Thus, those behaviors belong to the Car entity and they

change the state of the car.

Page 15 of 21

2. If we consider the same car, in order to check the fuel level, "check fuel level" behavior should be performed. At a glance, this behavior looks like it belongs to the Driver entity. However, since this behavior is revealing an information of the Car entity, it is closer to the Car entity. Thus, the right thing to do is to tie it with the Car entity as well.

Accordingly, we should tie a behavior to an entity that is changed by it or the entity that it provides information about.

Behaviors

In this set of questions, you are expected to identify the BEHAVIORS (Verbs) related to the entities given at the top. The behaviors are given on the left side. Select the entity that each behavior belongs to. Otherwise, if the behavior does not make sense to you, select "The word/phrase is not meaningful"; if the item is a meaningful word or phrase but does not belong to any of the given entities, select "Does not belong anywhere"; if it is hard to decide, select "Hard to decide". PLEASE DO NOT GUESS OR ASSUME ANYTHING.

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ATM - Acts as an interface between the customer and the bank and handles the interactions between the customer and the bank.

ATM User - The person who uses the ATM.

Transaction - A deposit, withdrawal or another action performed by the ATM user.

- NM The word/phrase is not meaningful (Eg: xyz, run jump).
- NB Meaningful, but does not belong to any given entity.
- HD Hard to decide because the word/phrase is not specific enough.

.....

	Bank	A T. N. /	ATM	Tuomaaatiam	NTN /	ND	IID
	Account	ATM	User	Transaction	NM	NB	HD
Deposit	0	\circ	0	\circ	\circ	\circ	0
25.2 Please	select the enti Bank Account	ty (or the oth	er option) th ATM User	at the behavior be Transaction	elongs to the	most.	HD
Withdraw	0	0	0	0	0	0	0
25.3 Please	select the enti Bank Account	ty (or the oth	er option) th ATM User	at the behavior be Transaction	elongs to the	most.	HD
Q5.3 Please Check Balance	Bank		ATM		-		HD
Check Balance	Bank Account select the enti	ATM ty (or the other	ATM User er option) th ATM	Transaction	NM clongs to the	NB most.	0
Check Balance	Bank Account	ATM ty (or the other	ATM User	Transaction	NM	NB	HD

Q5.1

Q6.1 Consider yourself us appears on the ATM screen	-	ansactions with the bank. If f	following message
	I'm confident about what to do next	I'm somewhat confident about what to do next	I will need customer care help to proceed
Insufficient funds	\circ	\circ	\circ
· ·	en, I'm confident about	ransactions with the bank. If f I'm somewhat confident about what to do next	I will need customer
· ·	en,		
· ·	en, I'm confident about	I'm somewhat confident	I will need customer
Wrong pin number.	I'm confident about what to do next	I'm somewhat confident about what to do next	I will need customer care help to proceed
wrong pin number.	en, I'm confident about what to do next Sing an ATM to perform to	I'm somewhat confident	I will need customer care help to proceed
Wrong pin number. Q6.3 Consider yourself us	en, I'm confident about what to do next Sing an ATM to perform to	I'm somewhat confident about what to do next	I will need customer care help to proceed

	I'm confident about what to do next	I'm somewhat confident about what to do next	I will need customer care help to proceed
Transaction unsuccessful! Please try again.	0	0	0
Q6.5 Consider yourself us appears on the ATM screen	•	ansactions with the bank. If f	following message
	I'm confident about what to do next	I'm somewhat confident about what to do next	I will need customer care help to proceed
You have specified a			
wrong amount. Enter only multiples of 10. Q6.6 Consider yourself us appears on the ATM screen	en,	ansactions with the bank. If f	
only multiples of 10. Q6.6 Consider yourself us	•	ansactions with the bank. If f I'm somewhat confident about what to do next	following message I will need customer care help to proceed
only multiples of 10. Q6.6 Consider yourself us	en, I'm confident about	I'm somewhat confident	I will need customer
only multiples of 10. Q6.6 Consider yourself us appears on the ATM screed You have selected an invalid choice. Please enter your choice again.	en, I'm confident about what to do next Sing an ATM to perform tr	I'm somewhat confident	I will need customer care help to proceed

appears on the ATM scree	•	ansactions with the bank. If h	onowing message
	I'm confident about what to do next	I'm somewhat confident about what to do next	I will need customer care help to proceed
Something went wrong.	0	\circ	0
Q6.9 Consider yourself us appears on the ATM screen	-	ansactions with the bank. If for	ollowing message
	I'm confident about what to do next	I'm somewhat confident about what to do next	I will need customer care help to proceed
NullPointerException	0	\circ	\circ
Q6.10 Consider yourself usappears on the ATM screen	-	ransactions with the bank. If I'm somewhat confident about what to do next	following message I will need customer care help to proceed
Please choose an option: 1. Deposit 2. Withdraw 3. View Transaction Log 4. Quit	0		0
Q6.11 Consider yourself to appears on the ATM screen	-	ransactions with the bank. If I'm somewhat confident	following message I will need customer
	what to do next	about what to do next	care help to proceed
Please enter the amount:	0	0	0

Q6.12 Consider yourself using an ATM to perform transactions with the bank. If following mess	sage
appears on the ATM screen,	

	I'm confident about what to do next	I'm somewhat confident about what to do next	I will need customer care help to proceed
Wrong amount. Please re-enter:	0	0	0
Q6 If you have any comm please mention here. (Opti	•	ne the answers you selected for	or the above questions,
			

Information

We thank you for your time spent taking this survey. Your response has been recorded.

If you would like to have the results of this survey or would like to participate in our future studies, please click "Next". Your contact information will be collected and recorded separately from your survey responses and thus you will not be identified as its source.

If you do not need the results of the survey or are not willing to take part in our future studies, you may leave this survey by closing this window.

Participant Information

I would like to,
Receive the results.Participate in future studies of this research
Email:

Powered by Qualtrics

Appendix 3

EForm Name:Human Ethics Amendment Request Form - v1.2

Page:

SECTION C: Attachments

Section: Upload new versions of any documents that will be modified as part of this amendment request. (.doc,

.docx, .xls, .xlsx, .pdf or .jpg)

Question: Upload

File Name: Invitation.pdf

Hello,

We are conducting a survey to identify how people make qualitative decisions based on their background.

This survey is completely anonymous and will take no more than 30 minutes. Please forward this message to your network, requesting them to participate. There are no specific prerequisites to participant in this survey. You are also welcome to participate. The participation in this survey is voluntary.

For more information, including details regarding our motivation and goals and, to participate in the survey, please visit:

<Once the survey is published, a link will be provided here>

Please note that this survey is conducted by Ms. Sanuri D. Gunawardena in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Computer Science, supported by the supervisors Associate Professor Ewan Tempero and Dr. Kelly Blincoe. This survey is not conducted by The University of Auckland.

Best Regards,

Ms.Sanuri D. Gunawardena

Associate Professor Ewan Tempero

Dr. Kelly Blincoe

The University of Auckland

Contact:

Ms. Sanuri D. Gunawardena sgun571@aucklanduni.ac.nz

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