Turing Tumble Evaluation (Monitored)

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Task 1

These questions are related to the first task on the task sheet provided

Curin	a Tur	hla	Evo	luation	(M_{Ω})	aitoro	٦,
i ur inc	u run.	ıbie	Eva.	luation	UVIO	шин	a)

Did you complete th Yes No	nis task? *							
Have you heard of a	Turing Tur	nble befor	e this expe	riment? *				
O No								
How easy was it to s	How easy was it to select and place pieces onto the board? *							
	1	2	3	4	5			
Very difficult	0	0	0	•	0	Very easy		
	Can you suggest any improvements to placing pieces on the board?							
I didn't know beforehar	na now to fli	o a piece be	erore I accide	entally doub	ie ciicked			
How easy was it to understand when a marble 'fell' based on the icon? *								
	1	2	3	4	5			
Very difficult	0	0	0	•	0	Very easy		

uring Tumble Evaluation (Monitored)	urino	r Tumbl	e Evalua	tion (M	onitored)
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Very easy ord? * clicking?
< ?
ery intuitive

	Turing	Tumble	Evaluation	(Monitored)
--	--------	--------	------------	------------	---

Yes No						
as this task helped	you under	rstand the	concept o	f bits and r	egisters be	etter? *
Yes						
Somewhat yes						
No						
	1	2	2	1	5	
Very difficult	1	2	3	4	5	Very easy
Very difficult How easy was it to u	0	0	0	0	•	
	0	C I the differ	0	0	•	
	nderstand	C I the differ	ent playba	Ck options	available?	

Not useful information

Do you have any suggestions to improve the ease of understanding the different pieces? Maybe a very small visual example of each piece? Maybe not in the tooltip, but perhaps a little slide or something before the first official puzzle that uses that piece. Task 3 The questions related to Task 3 Did you complete this task? * Yes No How clear was the puzzle list? * 2 1 Difficult to understand Very clear Was the information provided relevant in choosing a puzzle? *

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5

Very useful details

uring Tumble Evaluation (Monitored)
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How useful was the d	ifficulty fil	ter? *					
	1	2	3	4	5		
Not useful at all	0	0	•	0	0	Very useful	
Would you suggest any other types of filters or search features? Add a filter for puzzles you've completed							
How clear was it that	some piec	es couldn	't be chan	ged or del	eted? *		
	1	2	3	4	5		
Not clear at all	0	0	0	0	•	Very clear	
How clear was it that	you only h	ad a certa	in numbe	r of pieces	to comple	ete the puzzle? *	
	1	2	3	4	5		
Not clear at all	0	0	0	0	•	Very clear	
Do you think these puzzles could assist in learning the Turing Tumble? * Yes No Maybe							
Maybe							

Task 4 (extra)

Please only fill in this section if you have logged in anonymously to the site							
Did you complete this	s task? *						
Yes							
O No							
How clear was the cr	eate starti	ng set up	ohase?				
	1	2	3	4	5		
Not clear at all	0	0	0	0	•	Very clear	
Was it easy to come (Was it easy to come up with a puzzle by thinking of the solution?						
	1	2	3	4	5		
Not easy at all	0		0	0	0	Very easy	
Can you suggest a different way of creating a puzzle? Start by creating a solution, then "mark out" which pieces are part of the starting setup							
Would you want to add any more descriptive attributes to your puzzle? Perhaps clear rate? i.e what percentage of players who've attempted this puzzle completed it							

Any more suggestions to add?

It's really annoying not being able to change the starting setup once it's confirmed!

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Turing	Tumble	Evaluation	(Monitored)	1

Did you complete the Yes No	nis task? *					
Have you heard of a Yes No	Turing Tur	nble befor	e this expe	eriment? *		
How easy was it to s	select and p	place piece 2	es onto the	e board? *	5	Very easy
Can you suggest any improvements to placing pieces on the board? Perhaps more highlighting of positions which were being selected, like changing colour if they're being hovered over.						
How easy was it to understand when a marble 'fell' based on the icon? *						
Very difficult	0	0	0	0	•	Very easy

Turing	Tumble	Evaluation	(Monitored)
Turing	Tumble	Evaluation	(Monitored)

	1	2	3	4	5	
Very difficult	\bigcirc	0	0	•	0	Very easy
Vas it clear how mar	y marbles	had been	collected	at the bo	ttom of the	e board? *
Yes						
Somewhat clear						
No						
	gestions to	improve :	the experi	ence of th	ne previou:	s task?
N/A					ne previou	s task?
Do you have any sugg			re connec		ne previou	s task?
N/A	hat two Ge	earbits we	re connec	rted? *		s task? Very intuitive

Cunina	Tumble	Errolustion	(Monitored)	١
ı uı iii u	i umbie	Lvaiuation	(Monnorea)	,

Did you complete th	nis task? *					
YesNo						
Has this task helped	you under	rstand the	concept o	f bits and r	egisters be	etter? *
Yes						
Somewhat yes						
O No						
How easy are the pi	ece icons t	o uniquely 2	identify?	4	5	
Very difficult	0	0	0	0	•	Very easy
How easy was it to u	understand	I the differ	ent playba	ck options	available?	*
	1	2	3	4	5	
Very difficult	0	0	0	•	0	Very easy
Do you have any su	ggestions t	o improve	the playba	ack feature	s?	
They should be separa	te from the o	other contro	ls.			

Do you have any suggestic Perhaps a description that cor				f unde	rstandiı	ng the c	lifferent pieces?
Task 3							
The questions related to Task 3							
Did you complete this task	?*						
Yes							
O No							
How clear was the puzzle I	ist? *						
	1	2	3		4	5	
Difficult to understand	0	0	0		0	•	Very clear
Was the information provided relevant in choosing a puzzle? *							
	1	2	3	4	5		
Not useful information	0	0	0	0	•	Ver	y useful details

Turing Tumble Evaluation (Monitored)

How useful was the difficulty filter? *						
	1	2	3	4	5	
Not useful at all	0	0	0	0	•	Very useful
Would you suggest ar	ny other ty	pes of filte	ers or sea	rch feature	es?	
How clear was it that	some piec	es couldn	't be chan	ged or del	leted? *	
	1	2	3	4	5	
Not clear at all	0	0	0	•	0	Very clear
How clear was it that	you only h	ad a certa	in numbe	r of pieces	s to comple	ete the puzzle? *
	1	2	3	4	5	
Not clear at all	0	0	0	•	0	Very clear
Do you think these put Yes No Maybe	ızzles coul	d assist in	learning t	he Turing	Tumble? *	

Task 4 (extra)

	Tumble	Evaluation	(Manitanad)	
urma	i umbie	Evaluation	i Monnior ea i	,

Please only fill in this sectio	n if you have l	ogged in ano	nymously to t	he site		
Did you complete thi	s task? *					
Yes						
O No						
How clear was the cr	eate starti	ng set up į	ohase?			
	1	2	3	4	5	
Not clear at all	0	0	0	0	•	Very clear
Was it easy to come	up with a p	ouzzle by t	hinking of	the solutio	on?	
	1	2	3	4	5	
Not easy at all	0	0	0	•	0	Very easy
Can you suggest a di	fferent wa	y of creati	ng a puzzl	e?		
N/A						
Would you want to a	dd any mor	e descript	tive attribu	ıtes to you	r puzzle?	
vvodia you want to at	•	-				

Any more suggestions to add?	
N/A	

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	m 11	T 1	/3 F	1.
Tiirina	Tiimble	Evaluation	n (Monitoi	red)

Did you complete th	is task? *						
Yes							
O No							
Have you heard of a	Turing Tur	nble befor	e this expe	eriment? *			
Yes							
No							
How easy was it to s	How easy was it to select and place pieces onto the board? *						
	1	2	3	4	5		
Very difficult	0	0	0	0	•	Very easy	
Can you suggest any improvements to placing pieces on the board?							
could maybe add an ou	itiine to piec	es wnen no	vered over/s	selected			
How easy was it to understand when a marble 'fell' based on the icon? *							
	1	2	3	4	5		
Very difficult	0	0	0	•	0	Very easy	

Turing Tumble Evaluation (Monitored)

	1	2	3	4	5	
Very difficult	0	0	0	0	•	Very easy
Vas it clear how man	y marbles	had been	collected	at the bo	ttom of th	e board? *
Yes						
Somewhat clear						
No						
,						
o you have any sugg	gestions to	o improve	the experi	ience of t	he previou	s task?
o you have any suggould maybe have a filte	er that you c	-	-			
o you have any suggould maybe have a filte irection the next ball w	er that you c	an toggle to	show arro	ws next to		
	er that you c	an toggle to	show arro	ws next to		
oo you have any suggould maybe have a filte irection the next ball w	er that you c ill go hat two Ge	an toggle to	show arro	ws next to	each piece	
oo you have any suggould maybe have a filte irection the next ball w	er that you coill go hat two Ge	earbits we	re connec	eted? *	each piece	indicating the

Task 2

These questions are related	d to Task 2					
Did you complete th	iis task? *					
Yes						
O No						
Has this task helped	you under	stand the	concept o	f bits and r	egisters be	etter? *
Yes						
Somewhat yes						
O No						
How easy are the pi	ece icons t	o uniquely	identify?	*		
	1	2	3	4	5	
Very difficult	0	0	0	0	•	Very easy
How easy was it to u	understand	the differ	ent playba	ck options	available?	*
	1	2	3	4	5	
Very difficult	0	0	•	0	0	Very easy

Do you have any suggestion maybe could put a x2 under the						nd the sa	me for slower
Do you have any suggestion no, they're easy to distinguish		prove the	e ease d	of unde	erstandi	ng the d	ifferent pieces?
Task 3 The questions related to Task 3							
Did you complete this task Yes No	(? *						
How clear was the puzzle	list? *						
Difficult to understand	1	2	3		4	5	Very clear
Was the information provi	ded relev	ant in ch	oosing	a puzzl	le?*		
Not useful information	1	2	3	4	5	Ver	y useful details

Turing Tumble Evaluation (Monitored)

How useful was the d	lifficulty fil	ter? *				
	1	2	3	4	5	
Not useful at all	0	0	•	0	0	Very useful
Would you suggest a	ny other ty	pes of filt	ers or sea	rch feature	es?	
when limiting the puzzle puzzles, not multiples pa			ifficulty filte	er. make the	page show	the max amount of
How clear was it that	some piec	ces couldn	't be chan	ged or del	eted? *	
	1	2	3	4	5	
Not clear at all	0	0	0	•	0	Very clear
How clear was it that	you only h	ad a certa	in numbe	r of pieces	s to comple	ete the puzzle? *
	1	2	3	4	5	
Not clear at all	0	0	\circ	0	•	Very clear
Do you think these pu	uzzles coul	ld assist in	learning t	the Turing	Tumble? *	
			J	3		
Yes						
No						
Maybe						

Turing	Tumble	Evaluation	(Monitored)

ease only fill in this section	n if you have I	ogged in ano	nymously to t	he site		
Did you complete thi	s task? *					
Yes						
No						
How clear was the cr	eate starti	ng set up	ohase?			
	1	2	3	4	5	
Not clear at all	0	0	0	0	•	Very clear
Vas it easy to come	up with a p	ouzzle by t	hinking of	the solutio	on?	
	1	2	3	4	5	
Not easy at all	0	0	0	0	•	Very easy
Can you suggest a di	fferent wa	y of creati	ng a puzzl	e?		
Vould you want to ac	dd any moi	re descript	tive attribu	ites to you	r puzzle?	

Any more suggestions to add?	
not all good I think	

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Furing	Tumble	Evaluation ((Monitored)	
i uring	1 umpre	Evaluation	(Monnorea)	

Did you complete the Yes No	nis task? *					
Have you heard of a Yes No	a Turing Tur	nble befor	e this expe	eriment? *		
How easy was it to s	select and p	place piece 2	es onto the	e board? * 4	5	Very easy
Can you suggest an						pe great.
How easy was it to	understand	when a m	arble 'fell'	based on t	he icon? *	
Very difficult	1	2	3	4	5	Very easy

Turing	Tumble	Evaluation	(Monitored)

		direction o	of a piece	that was	on the boa	rd? *
low easy was it to ch	nange the (
	1	2	3	4	5	
Very difficult	0	0	0	0	•	Very easy
Vas it clear how man	y marbles	had been	collected	at the bo	ttom of the	e board? *
Yes						
Somewhat clear						
No						
-						
o you have any sugg	gestions to	improve	the experi	ence of t	ne previou:	s task?
					ne previou:	s task?
			re connec	ted?*	ne previous	s task?
Do you have any sugging the sugging the second seco	hat two Ge	earbits we	re connec	ted?*		s task? Very intuitive
How intuitive was it t	hat two Ge	earbits we	re connec	eted? * 4	5	
How intuitive was it the Not very intuitive	hat two Ge 1	earbits we	re connection of the use of	eted? * 4	5	
How intuitive was it the Not very intuitive	hat two Ge 1	earbits we	re connection of the use of	eted? * 4	5	
Not very intuitive Not very intuitive Oo you have any sugg	hat two Ge	earbits we	re connection of the use of	eted? * 4	5	

Curina	Tumble	Evaluation	(Monitored)	۱

Yes No						
las this task helped	d you unde	rstand the	concept o	f bits and r	egisters be	etter? *
Yes						
Somewhat yes						
No						
low easy are the pi Very difficult	1	2	3	4	5	Very easy
low easy was it to	understand 1	d the differ 2	ent playba 3	ck options 4	available?	*
Very difficult	0	0	•	0	0	Very easy

Do you have any suggestic A short demo for each of the p				of und	erstandi	ng the d	ifferent pieces?
Task 3							
The questions related to Task 3							
Did you complete this task	:? *						
Yes							
O No							
How clear was the puzzle	list? *						
	1	2	3		4	5	
Difficult to understand	0	0	C		•	0	Very clear
Was the information provid	ded relev	vant in ch	noosing	a puzz	zle? *		
	1	2	3	4	5		
Not useful information	0	0	0	0	•	Ver	y useful details

ALTIN TAILING EVALUATION (MOUNTED)	urina	Tumble	Evaluation	(Monitored)
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	1	2	3	4	5	
	'	۷	3	7	3	
Not useful at all	0	0	0	0		Very useful
Vould you suggest ar	ny other ty	pes of filt	ers or sea	rch feature	es?	
Being able to search by to concepts you want to pro		of problem.	E.g. in che	ss puzzles y	ou can filte	r by specific
How clear was it that	some piec	ces couldn	't be chan	ged or del	eted?*	
	1	2	3	4	5	
Not clear at all	0	0	0	•	0	Very clear
low clear was it that	you only h	ad a certa	in numbe	r of pieces	s to comple	ete the puzzle? *
	1	2	3	4	5	
Not clear at all	0	0	0	0	•	Very clear
Do you think these pu	ızzles coul	ld assist in	learning t	he Turing	Tumble?*	
Yes						
No						

Turing	Tumble	Evaluation	(Monitored)

Task 4 (extra)						
Please only fill in this section	n if you have l	ogged in ano	nymously to t	he site		
Did you complete thi	s task? *					
YesNo						
How clear was the cr	eate starti	ng set up į	ohase?			
	1	2	3	4	5	
Not clear at all	0	0	0	•	0	Very clear
Was it easy to come	up with a p	ouzzle by t	hinking of	the solutio	on?	
	1	2	3	4	5	
Not easy at all	0	0	0	•	0	Very easy
Can you suggest a di No, the way it currently their puzzle.					tinuing befo	re they confirm
Would you want to ad Maybe type of puzzle? (ites to you	ır puzzle?	

Any more suggestions to add?
Puzzle ideas?

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Did you complete th	nis task? *					
Yes						
O No						
Have you heard of a	Turing Tur	mble befor	e this expe	eriment? *		
Yes						
O No						
How easy was it to s	select and	place piec	es onto the	e board? *		
	1	2	3	4	5	
Very difficult	0	0	0	•	0	Very easy
Can you suggest an	y improver	ments to p	lacing piec	es on the l	ooard?	
None really						
How easy was it to (understand	l when a m	arble 'fell'	based on t	he icon? *	
	1	2	3	4	5	
Very difficult	0	0	0	•	0	Very easy

uring Tumble Evaluation (Moni	itored)	
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1	2	3	4	5	
0	0	0	•	0	Very easy
ny marbles	had been	collected	at the bo	ttom of th	e board? *
ggestions to				ne previou	s task?
ggestions to that two Ge				ne previou	s task?
that two Ge	earbits we	re connec	cted?*		very intuitive
	0	0 0	0 0 0		

Task 2

These questions are related	d to Task 2					
Did you complete th	is task? *					
Yes						
O No						
Has this task helped	you under	rstand the	concept o	f bits and r	egisters be	etter? *
Yes						
Somewhat yes						
O No						
How easy are the pie	ece icons t	o uniquely	identify?	*		
	1	2	3	4	5	
Very difficult	0	0	0	0	•	Very easy
How easy was it to u	understand	I the differ	ent playba	ck options	available?	*
	1	2	3	4	5	
Very difficult	\circ	\circ	\bigcirc	\circ	•	Very easy

Do you have any suggestion Place them in a separate wind				features?		
Do you have any suggestion of the suggestion of		prove the	ease of u	ınderstand	ling the d	lifferent pieces?
Task 3						
The questions related to Task 3						
Did you complete this task	·? *					
Yes						
O No						
How clear was the puzzle	list? *					
	1	2	3	4	5	
Difficult to understand	0	0	0	•	0	Very clear
Was the information provi	ded relev	ant in cho	osing a p	ouzzle?*		
	1	2	3	4 5		
Not useful information	0	0	0 (•	Ver	y useful details

Not useful at all Would you suggest any oth Ability to list all puzzles at one How clear was it that some	ce, refine s					Very useful
Would you suggest any other Ability to list all puzzles at one	ce, refine s					Very useful
Ability to list all puzzles at one	ce, refine s					
How clear was it that some						popular)
How clear was it that some						
	e pieces (couldn't be	e changed	d or delete	ed? *	
	1	2	3	4	5	
Not clear at all		0	•	0	0	Very clear
How clear was it that you o	only had a	a certain n	umber of	pieces to	complete	the puzzle? *
	1	2	3	4	5	
Not clear at all	\supset	0	0	0	•	Very clear
Do you think these puzzles	s could as	ssist in lea	rning the	Turing Tun	nble? *	
O Vaa						
• Yes						
No						
Maybe						

Task 4 (extra)

uring Tumble Evaluation (Monitored)	urinc	r Tumble	e Evaluation	(Monitored	1)
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Please only fill in this section	n if you have l	ogged in ano	nymously to t	he site		
Did you complete thi	s task? *					
YesNo						
How clear was the cr	eate starti	ng set up į	ohase?			
	1	2	3	4	5	
Not clear at all	0	0	0	0	•	Very clear
Was it easy to come	up with a p	ouzzle by t	hinking of	the solutio	on?	
	1	2	3	4	5	
Not easy at all	0	0	0	0	•	Very easy
Can you suggest a di	fferent wa	y of creati	ng a puzzl	e?		
Would you want to ac	dd any mor	re descript	tive attribu	ites to you	r puzzle?	

Any more suggestions to add?
None

Ethics Debrief

As given in the ethics brief, the main aim of this experiment was to test the usability of the Virtual Turing Tumble web application. I was particularly interested in how easy it was to use the site after just reading the tutorial and if there was any major confusion in how to use the Turing Tumble board.

If you have any questions related to the experiment or the application please contact me or my supervisor using the email addresses below.

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