

Ζητούμενο 1

Για τα text πλαίσια `firstname`, `lastname` έχουμε από την εκφώνηση αρχικά είναι ενεργοποιημένο το `caps lock` και επειδή μόνο το πρώτο γράμμα είναι κεφαλαίο, άρα τα `keystrokes` περίπτωση είναι όσα αναφέρει η εκφώνηση (9 χαρακτήρες) συν ένα για την απενεργοποίηση του `caps lock`.

Για τα text πλαίσια κάνουμε τις ακόλουθες παραδοχές ότι μόνο το πρώτο γράμμα είναι κεφαλαίο, δηλαδή στα πεδία `father_name`, `odos_arithmos`, `city`, `paratiriseis` θεωρούμε ότι μόνο το πρώτο γράμμα είναι κεφαλαίο, άρα τα `keystrokes` σε κάθε περίπτωση είναι όσα αναφέρει η εκφώνηση συν ένα για το πλήκτρο `shift` και την εισαγωγή κεφαλαίου γράμματος στην αρχή.

Για το πεδίο `paratiriseis` θεωρούμε ότι στους 100 χαρακτήρες περιέχεται και η «.».

Επίσης, ένα επιπλέον `keystroke` χρησιμοποιούμε για το `shift` στο `kinito_til` και `stathero_til` για την εισαγωγή του `+`, αλλά και για το `space` στο `odos_arithmos` (Alkiviadou xx).

Ακόμα, ένα επιπλέον `keystroke` χρησιμοποιούμε για το `shift` στο `email` για την εισαγωγή του `@`.

Τέλος, δύο επιπλέον `keystroke` χρησιμοποιούμε για το `shift` στο `at`(Αριθμός ταυτότητας) για την εισαγωγή δύο κεφαλαίων χαρακτήρων.

at	10	city	6	am	6
		kinito_til	14		
email	21	lastname	10		
father_name	10	odos_arithmos	14	postal_code	5
firstname	10	paratiriseis	101	stathero_til	14

KLM Rules

Mental Operator Generic Rules
 Use Mental Operator (M) when processing the elements below:

	Using Mouse		Using Keyboard	
	Reach Actions	Manipulation Actions	Reach Actions	Manipulation Actions
Button	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CheckBox	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ListBox	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radio Button	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TextBox	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TextArea	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mental Operators in Captcha TextBox
 Use Mental Operators (Ms) before each Keystroke ☒

Mental Operator in ListBox with many Options (>40)
 Use Mental Operator for Scrolling ☐

ListBoxes Manipulation using keyboard
 As textbox when choices/2 > option characters ☐

Use Fitts' Specific Constants
 When dragging use drag n drop specific a,b constants ☐

1.

Σωστό, γιατί η αλλαγή πλαισίου με το πληκτρολόγιο απαιτεί μόνο ένα Tk (με τη χρήση tab) όπως φαίνεται και στο reach time, ενώ με το ποντίκι χρειάζονται περισσότερες ενέργειες.

Με ποντίκι:

Results

User's hand on keyboard
Cursor position in top left corner of the screen

No	Tag	Name	Type	ReachTime	ManipulationTime	
<input checked="" type="checkbox"/> 01	input	url	text			unknown
<input checked="" type="checkbox"/> 02	input	fld_3688899	text	H+M+P+2*B	H+M+10*K	firstname
<input checked="" type="checkbox"/> 03	input	fld_6829296	text	H+M+P+2*B	H+M+10*K	lastname
<input checked="" type="checkbox"/> 04	input	fld_9064242	text	H+M+P+2*B	H+M+10*K	father_name
<input checked="" type="checkbox"/> 05	select	fld_5620557	select-one	H+P	2*B+P+2*B	
<input checked="" type="checkbox"/> 06	select	fld_179513	select-one	P	2*B+P+2*B	
<input checked="" type="checkbox"/> 07	input	fld_8160775	text	M+P+2*B	H+M+6*K	am
<input checked="" type="checkbox"/> 08	input	fld_3032525	text	H+M+P+2*B	H+M+10*K	at
<input checked="" type="checkbox"/> 09	input	fld_645468	text	H+M+P+2*B	H+M+14*K	kinito_til
<input checked="" type="checkbox"/> 10	input	fld_9581227	text	H+M+P+2*B	H+M+14*K	stathero_til
<input checked="" type="checkbox"/> 11	input	fld_6830845	text	H+M+P+2*B	H+M+21*K	email
<input checked="" type="checkbox"/> 12	input	fld_9865580	text	H+M+P+2*B	H+M+15*K	odos_arithmos
<input checked="" type="checkbox"/> 13	input	fld_8933919	text	H+M+P+2*B	H+M+5*K	postal_code
<input checked="" type="checkbox"/> 14	input	fld_6491630	text	H+M+P+2*B	H+M+7*K	city
<input checked="" type="checkbox"/> 15	input	fld_4863078	text	H+M+P+2*B	H+M+15*K	odos_arithmos
<input checked="" type="checkbox"/> 16	input	fld_4984552	text	H+M+P+2*B	H+M+5*K	postal_code
<input checked="" type="checkbox"/> 17	select	fld_1265967	select-one	H+P	2*B+P+2*B	
<input checked="" type="checkbox"/> 18	select	fld_5934648	select-one	P	2*B+P+2*B	
<input checked="" type="checkbox"/> 19	textarea	fld_6566084	textarea	M+P+2*B	H+101*K	paratiriseis
<input checked="" type="checkbox"/> 20	input	fld_6307197[opt1890333]	checkbox	H+P	2*B	
<input checked="" type="checkbox"/> 21	input	fld_3322678[opt1890333]	checkbox	P	2*B	
<input checked="" type="checkbox"/> 22	input	fld_7007738	submit	M+P	2*B	

KLM Result

H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+P+2*B+P+2*B+P+2*B+P+2*B+M+P+2*B+H+M+6*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+14*K+H+M+P+2*B+H+M+21*K+H+M+P+2*B+H+M+15*K+H+M+P+2*B+H+M+5*K+H+M+P+2*B+H+M+7*K+H+M+P+2*B+H+M+15*K+H+M+P+2*B+H+M+5*K+H+P+2*B+P+2*B+P+2*B+P+2*B+M+P+2*B+H+101*K+H+P+2*B+P+2*B+M+P+2*B

KLM Sum Up

29H+28M+25P+50B+243K

KLM Predicted Time (sec)

97,14

XML Export

Με πληκτρολόγιο:

<div> <div> Fitts' Law Disabled </div> <div> Typing Ability Best </div> <div> User's Age Below 40 </div> <div> Reach Fields Using Keyboard </div> <div> Manipulate Fields Using Keyboard </div> <div> Initial State </div> <div> Help </div> <div> About.. </div> </div>						
Results						
No	Tag	Name	Type	ReachTime	ManipulationTime	User's hand on keyboard Cursor position in top left corner of the screen
01	input	url	text			unknown
02	input	fld_3688899	text	K	M+10*K	firstname
03	input	fld_6829296	text	K	M+10*K	lastname
04	input	fld_9064242	text	K	M+10*K	father_name
05	select	fld_5620557	select-one	K	5*K	
06	select	fld_179513	select-one	K	19*K	
07	input	fld_8160775	text	K	M+6*K	am
08	input	fld_3032525	text	K	M+10*K	at
09	input	fld_645468	text	K	M+14*K	kinito_til
10	input	fld_9581227	text	K	M+14*K	stathero_til
11	input	fld_6830845	text	K	M+21*K	email
12	input	fld_9865580	text	K	M+15*K	odos_arithmos
13	input	fld_8933919	text	K	M+5*K	postal_code
14	input	fld_6491630	text	K	M+7*K	city
15	input	fld_4863078	text	K	M+15*K	odos_arithmos
16	input	fld_4984552	text	K	M+5*K	postal_code
17	select	fld_1265967	select-one	K	2*K	
18	select	fld_5934648	select-one	K	2*K	
19	textarea	fld_6566084	textarea	K	101*K	paratiriseis
20	input	fld_6307197[opt1890333]	checkbox	K	K	
21	input	fld_3322678[opt1890333]	checkbox	K	K	
22	input	fld_7007738	submit	M+K	K	
<div> <div>KLM Result</div> <div> K+M+10*K+K+M+10*K+K+M+10*K+K+5*K+K+19*K+K+M+6*K+K+M+10*K+K+M+14*K+K+M+14*K+K+M+21*K+K+M+15*K+K+M+5*K+K+M+7*K+K+M+15*K+K+M+5*K+K+2*K+K+2*K+K+101*K+K+K+K+K+M+K+K </div> </div>						
<div> <div>KLM Sum Up</div> <div>14M+295K</div> </div>						
<div> <div>KLM Predicted Time (sec)</div> <div>40,40</div> <div>XML Export</div> </div>						

2.

Σωστό, γιατί η αλλαγή πλαισίου με το πληκτρολόγιο απαιτεί μόνο ένα Tk (με τη χρήση tab) όπως φαίνεται και στο reach time, ενώ με το ποντίκι χρειάζονται περισσότερες ενέργειες, ακόμα και αν είναι «average typist» με χρόνο (0,2sec) που χρησιμοποιεί αποκλειστικά το πληκτρολόγιο σε σχέση με τον «best typist» με ποντίκι και χρόνο(0,08 sec).

«Average typist» με πληκτρολόγιο:

<div> <div>Fitts' Law Disabled</div> <div>Typing Ability Average</div> <div>User's Age Below 40</div> <div>Reach Fields Using Keyboard</div> <div>Manipulate Fields Using Keyboard</div> <div>Initial State</div> <div>Help</div> <div>About..</div> </div>						
Results						
No	Tag	Name	Type	ReachTime	ManipulationTime	User's hand on mouse Cursor position in top left corner of the screen
01	input	url	text			unknown
02	input	fld_3688899	text	H+K	M+10*K	firstname
03	input	fld_6829296	text	K	M+10*K	lastname
04	input	fld_9064242	text	K	M+10*K	father_name
05	select	fld_5620557	select-one	K	5*K	
06	select	fld_179513	select-one	K	19*K	
07	input	fld_8160775	text	K	M+6*K	am
08	input	fld_3032525	text	K	M+10*K	at
09	input	fld_645468	text	K	M+14*K	kinito_til
10	input	fld_9581227	text	K	M+14*K	stathero_til
11	input	fld_6830845	text	K	M+21*K	email
12	input	fld_9865580	text	K	M+15*K	odos_arithmos
13	input	fld_8933919	text	K	M+5*K	postal_code
14	input	fld_6491630	text	K	M+7*K	city
15	input	fld_4863078	text	K	M+15*K	odos_arithmos
16	input	fld_4984552	text	K	M+5*K	postal_code
17	select	fld_1265967	select-one	K	2*K	
18	select	fld_5934648	select-one	K	2*K	
19	textarea	fld_6566084	textarea	K	101*K	paratiriseis
20	input	fld_6307197[opt1890333]	checkbox	K	K	
21	input	fld_3322678[opt1890333]	checkbox	K	K	
22	input	fld_7007738	submit	M+K	K	
<div> <div>KLM Result</div> <div>H+K+M+10*K+K+M+10*K+K+M+10*K+K+5*K+K+19*K+K+M+6*K+K+M+10*K+K+M+14*K+K+M+14*K+K+M+21*K+K+M+15*K+K+M+5*K+K+M+7*K+K+M+15*K+K+M+5*K+K+2*K+K+2*K+K+101*K+K+K+K+M+K+K</div> </div>						
<div> <div>KLM Sum Up</div> <div>H+14M+295K</div> </div>						
<div> <div>KLM Predicted Time (sec)</div> <div>76.20</div> <div>XML Export</div> </div>						

«Best typist» με ποντίκι:

<div> Fitss' Law Disabled Typing Ability Best User's Age Below 40 Reach Fields Using Mouse Manipulate Fields Using Mouse Initial State Help About... </div>						
Results						
No	Tag	Name	Type	ReachTime	ManipulationTime	Mappings
<input checked="" type="checkbox"/> 01	input	url	text			unknown
<input checked="" type="checkbox"/> 02	input	fld_3688899	text	M+P+2*B	H+M+10*K	firstname
<input checked="" type="checkbox"/> 03	input	fld_6829296	text	H+M+P+2*B	H+M+10*K	lastname
<input checked="" type="checkbox"/> 04	input	fld_9064242	text	H+M+P+2*B	H+M+10*K	father_name
<input checked="" type="checkbox"/> 05	select	fld_5620557	select-one	H+P	2*B+P+2*B	
<input checked="" type="checkbox"/> 06	select	fld_179513	select-one	P	2*B+P+2*B	
<input checked="" type="checkbox"/> 07	input	fld_8160775	text	M+P+2*B	H+M+6*K	am
<input checked="" type="checkbox"/> 08	input	fld_3032525	text	H+M+P+2*B	H+M+10*K	at
<input checked="" type="checkbox"/> 09	input	fld_645468	text	H+M+P+2*B	H+M+14*K	kinito_til
<input checked="" type="checkbox"/> 10	input	fld_9581227	text	H+M+P+2*B	H+M+14*K	stathero_til
<input checked="" type="checkbox"/> 11	input	fld_6830845	text	H+M+P+2*B	H+M+21*K	email
<input checked="" type="checkbox"/> 12	input	fld_9865580	text	H+M+P+2*B	H+M+15*K	odos_arithmos
<input checked="" type="checkbox"/> 13	input	fld_8933919	text	H+M+P+2*B	H+M+5*K	postal_code
<input checked="" type="checkbox"/> 14	input	fld_6491630	text	H+M+P+2*B	H+M+7*K	city
<input checked="" type="checkbox"/> 15	input	fld_4863078	text	H+M+P+2*B	H+M+15*K	odos_arithmos
<input checked="" type="checkbox"/> 16	input	fld_4984552	text	H+M+P+2*B	H+M+5*K	postal_code
<input checked="" type="checkbox"/> 17	select	fld_1265967	select-one	H+P	2*B+P+2*B	
<input checked="" type="checkbox"/> 18	select	fld_5934648	select-one	P	2*B+P+2*B	
<input checked="" type="checkbox"/> 19	textarea	fld_6566084	textarea	M+P+2*B	H+101*K	paratiriseis
<input checked="" type="checkbox"/> 20	input	fld_6307197[opt1890333]	checkbox	H+P	2*B	
<input checked="" type="checkbox"/> 21	input	fld_3322678[opt1890333]	checkbox	P	2*B	
<input checked="" type="checkbox"/> 22	input	fld_7007738	submit	M+P	2*B	
<div> <div>KLM Result</div> <div>M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+P+2*B+P+2*B+M+P+2*B+H+M+6*K+H+M+P+2*B+H+M+10*K+H+M+14*K+H+M+P+2*B+H+M+14*K+H+M+P+2*B+H+M+15*K+H+M+P+2*B+H+M+5*K+H+M+P+2*B+H+M+7*K+H+M+P+2*B+H+M+15*K+H+M+P+2*B+H+M+5*K+H+P+2*B+P+2*B+P+2*B+M+P+2*B+H+101*K+H+P+2*B+P+2*B+M+P+2*B</div> </div>						
<div> <div>KLM Sum Up</div> <div>28H+28M+25P+50B+243K</div> </div>						
<div> <div>KLM Predicted</div> <div>Time (sec)</div> </div>				<div>96,74</div> <div>XML Export</div>		

3.

Λάθος, γιατί η αλλαγή πλαισίου με το πληκτρολόγιο απαιτεί μονό ένα Tk (με τη χρήση tab) όπως φαίνεται και στο reach time, ενώ με το ποντίκι χρειάζονται περισσότερες ενέργειες.

Με ποντίκι:

<div> <div>Fitts' Law Disabled</div> <div>Typing Ability Poor</div> <div>User's Age Below 40</div> <div>Reach Fields Using Mouse</div> <div>Manipulate Fields Using Mouse</div> <div>Initial State</div> <div>Help</div> <div>About..</div> </div>						
Results						
No	Tag	Name	Type	ReachTime	ManipulationTime	User's hand on mouse Cursor position in top left corner of the screen
01	input	url	text			unknown
<input checked="" type="checkbox"/> 02	input	fld_3688899	text	M+P+2*B	H+M+10*K	firstname
<input checked="" type="checkbox"/> 03	input	fld_6829296	text	H+M+P+2*B	H+M+10*K	lastname
<input checked="" type="checkbox"/> 04	input	fld_9064242	text	H+M+P+2*B	H+M+10*K	father_name
<input checked="" type="checkbox"/> 05	select	fld_5620557	select-one	H+P	2*B+P+2*B	
<input checked="" type="checkbox"/> 06	select	fld_179513	select-one	P	2*B+P+2*B	
<input checked="" type="checkbox"/> 07	input	fld_8160775	text	M+P+2*B	H+M+6*K	am
<input checked="" type="checkbox"/> 08	input	fld_3032525	text	H+M+P+2*B	H+M+10*K	at
<input checked="" type="checkbox"/> 09	input	fld_645468	text	H+M+P+2*B	H+M+14*K	kinito_til
<input checked="" type="checkbox"/> 10	input	fld_9581227	text	H+M+P+2*B	H+M+14*K	stathero_til
<input checked="" type="checkbox"/> 11	input	fld_6830845	text	H+M+P+2*B	H+M+21*K	email
<input checked="" type="checkbox"/> 12	input	fld_9865580	text	H+M+P+2*B	H+M+15*K	odos_arithmos
<input checked="" type="checkbox"/> 13	input	fld_8933919	text	H+M+P+2*B	H+M+5*K	postal_code
<input checked="" type="checkbox"/> 14	input	fld_6491630	text	H+M+P+2*B	H+M+7*K	city
<input checked="" type="checkbox"/> 15	input	fld_4863078	text	H+M+P+2*B	H+M+15*K	odos_arithmos
<input checked="" type="checkbox"/> 16	input	fld_4984552	text	H+M+P+2*B	H+M+5*K	postal_code
<input checked="" type="checkbox"/> 17	select	fld_1265967	select-one	H+P	2*B+P+2*B	
<input checked="" type="checkbox"/> 18	select	fld_5934648	select-one	P	2*B+P+2*B	
<input checked="" type="checkbox"/> 19	textarea	fld_6566084	textarea	M+P+2*B	H+101*K	paratiriseis
<input checked="" type="checkbox"/> 20	input	fld_6307197[opt1890333]	checkbox	H+P	2*B	
<input checked="" type="checkbox"/> 21	input	fld_3322678[opt1890333]	checkbox	P	2*B	
<input checked="" type="checkbox"/> 22	input	fld_7007738	submit	M+P	2*B	
<div> <div>KLM Result</div> <div>M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+P+2*B+P+2*B+P+2*B+M+P+2*B+H+M+6*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+14*K+H+M+P+2*B+H+M+14*K+H+M+P+2*B+H+M+21*K+H+M+P+2*B+H+M+15*K+H+M+P+2*B+H+M+5*K+H+M+P+2*B+H+M+7*K+H+M+P+2*B+H+M+15*K+H+M+P+2*B+H+M+5*K+H+M+P+2*B+H+101*K+H+P+2*B+P+2*B+M+P+2*B</div> </div>						
<div> <div>KLM Sum Up</div> <div>28H+28M+25P+50B+243K</div> </div>						
<div> <div>KLM Predicted Time (sec)</div> <div>145,34</div> <div>XML Export</div> </div>						

Με πληκτρολόγιο:

<div> <div>Fitts' Law Disabled</div> <div>Typing Ability Poor</div> <div>User's Age Below 40</div> <div>Reach Fields Using Keyboard</div> <div>Manipulate Fields Using Keyboard</div> <div>Initial State</div> <div>Help</div> <div>About..</div> </div>						
Results						
No	Tag	Name	Type	ReachTime	ManipulationTime	User's hand on mouse Cursor position in top left corner of the screen
01	input	url	text			unknown
02	input	fld_3688899	text	H+K	M+10*K	firstname
03	input	fld_6829296	text	K	M+10*K	lastname
04	input	fld_9064242	text	K	M+10*K	father_name
05	select	fld_5620557	select-one	K	5*K	
06	select	fld_179513	select-one	K	19*K	
07	input	fld_8160775	text	K	M+6*K	am
08	input	fld_3032525	text	K	M+10*K	at
09	input	fld_645468	text	K	M+14*K	kinito_til
10	input	fld_9581227	text	K	M+14*K	stathero_til
11	input	fld_6830845	text	K	M+21*K	email
12	input	fld_9865580	text	K	M+15*K	odos_arithmos
13	input	fld_8933919	text	K	M+5*K	postal_code
14	input	fld_6491630	text	K	M+7*K	city
15	input	fld_4863078	text	K	M+15*K	odos_arithmos
16	input	fld_4984552	text	K	M+5*K	postal_code
17	select	fld_1265967	select-one	K	2*K	
18	select	fld_5934648	select-one	K	2*K	
19	textarea	fld_6566084	textarea	K	101*K	paratiriseis
20	input	fld_6307197[opt1890333]	checkbox	K	K	
21	input	fld_3322678[opt1890333]	checkbox	K	K	
22	input	fld_7007738	submit	M+K	K	
<div> <div>KLM Result</div> <div>H+K+M+10*K+K+M+10*K+K+M+10*K+K+5*K+K+19*K+K+M+6*K+K+M+10*K+K+M+14*K+K+M+14*K+K+M+21*K+K+M+15*K+K+M+5*K+K+M+7*K+K+M+15*K+K+M+5*K+K+2*K+K+2*K+K+101*K+K+K+K+K+M+K+K</div> </div>						
<div> <div>KLM Sum Up</div> <div>H+14M+295K</div> </div>						
<div> <div>KLM Predicted Time (sec)</div> <div>99,80</div> <div>XML Export</div> </div>						

4.

Σωστό, γιατί ο νόμος του Fitts χρησιμοποιείται για να υπολογίσει με μεγαλύτερη ακρίβεια τις αποστάσεις, αλλά και για την βελτιστοποίηση του Tr όπως φαίνεται και στο reach time κάθε περίπτωσης.

«Best typist» με ποντίκι:

Results

01

input

url

text

ReachTime

ManipulationTime

unknown

02

input

fld_3688899

text

M+P+2*B

H+M+10*K

firstname

03

input

fld_6829296

text

H+M+P+2*B

H+M+10*K

lastname

04

input

fld_9064242

text

H+M+P+2*B

H+M+10*K

father_name

05

select

fld_5620557

select-one

H+P

2*B+P+2*B

06

select

fld_179513

select-one

P

2*B+P+2*B

07

input

fld_8160775

text

M+P+2*B

H+M+6*K

am

08

input

fld_3032525

text

H+M+P+2*B

H+M+10*K

at

09

input

fld_645468

text

H+M+P+2*B

H+M+14*K

kinito_til

10

input

fld_9581227

text

H+M+P+2*B

H+M+14*K

stathero_til

11

input

fld_6830845

text

H+M+P+2*B

H+M+21*K

email

12

input

fld_9865580

text

H+M+P+2*B

H+M+15*K

odos_arithmos

13

input

fld_8933919

text

H+M+P+2*B

H+M+5*K

postal_code

14

input

fld_6491630

text

H+M+P+2*B

H+M+7*K

city

15

input

fld_4863078

text

H+M+P+2*B

H+M+15*K

odos_arithmos

16

input

fld_4984552

text

H+M+P+2*B

H+M+5*K

postal_code

17

select

fld_1265967

select-one

H+P

2*B+P+2*B

18

select

fld_5934648

select-one

P

2*B+P+2*B

19

textarea

fld_6566084

textarea

M+P+2*B

H+101*K

paratiriseis

20

input

fld_6307197[opt1890333]

checkbox

H+P

2*B

21

input

fld_3322678[opt1890333]

checkbox

P

2*B

22

input

fld_7007738

submit

M+P

2*B

KLM Result

M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+10*K+H+P+2*B+P+2*B+P+2*B+M+P+2*B+H+M+6*K+H+M+P+2*B+H+M+10*K+H+M+P+2*B+H+M+14*K+H+M+P+2*B+H+M+14*K+H+M+P+2*B+H+M+21*K+H+M+P+2*B+H+M+15*K+H+M+P+2*B+H+M+5*K+H+M+P+2*B+M+P+2*B

KLM Sum Up

28H+28M+25P+50B+243K

KLM Predicted Time (sec)

96,74

XML Export

Με το νόμο του Fitts:

Fitts' Law
Fitts: $a + b \cdot \log(2A/W)$
 Typing Ability
Best
 User's Age
Below 40
 Reach Fields
Using Mouse
 Manipulate Fields
Using Mouse
 Initial
 Initial State
 Help
 About..

Results

User's hand on mouse
 Cursor position in top left corner of the screen

No	Tag	Name	Type	ReachTime	Manipulation		
01	input	url	text			unknown	
<input checked="" type="checkbox"/>	02	input	fld_3688899	text	$M \cdot P(-0.86) + 2 \cdot B$	$H + M \cdot 10 \cdot K$	firstname
<input checked="" type="checkbox"/>	03	input	fld_6829296	text	$H + M \cdot P(-0.49) + 2 \cdot B$	$H + M \cdot 10 \cdot K$	lastname
<input checked="" type="checkbox"/>	04	input	fld_9064242	text	$H + M \cdot P(-0.49) + 2 \cdot B$	$H + M \cdot 10 \cdot K$	father_name
<input checked="" type="checkbox"/>	05	select	fld_5620557	select-one	$H \cdot P(-0.54)$	$2 \cdot B \cdot P(-0.68) + 2 \cdot B$	
<input checked="" type="checkbox"/>	06	select	fld_179513	select-one	$P(-0.24)$	$2 \cdot B \cdot P(-0.94) + 2 \cdot B$	
<input checked="" type="checkbox"/>	07	input	fld_8160775	text	$M \cdot P(-0.65) + 2 \cdot B$	$H + M \cdot 6 \cdot K$	am
<input checked="" type="checkbox"/>	08	input	fld_3032525	text	$H + M \cdot P(-0.54) + 2 \cdot B$	$H + M \cdot 10 \cdot K$	at
<input checked="" type="checkbox"/>	09	input	fld_645468	text	$H + M \cdot P(-0.61) + 2 \cdot B$	$H + M \cdot 14 \cdot K$	kinito_til
<input checked="" type="checkbox"/>	10	input	fld_9581227	text	$H + M \cdot P(-0.54) + 2 \cdot B$	$H + M \cdot 14 \cdot K$	slathero_til
<input checked="" type="checkbox"/>	11	input	fld_6830845	text	$H + M \cdot P(-0.54) + 2 \cdot B$	$H + M \cdot 21 \cdot K$	email
<input checked="" type="checkbox"/>	12	input	fld_9865580	text	$H + M \cdot P(-0.67) + 2 \cdot B$	$H + M \cdot 15 \cdot K$	odos_arithmos
<input checked="" type="checkbox"/>	13	input	fld_8933919	text	$H + M \cdot P(-0.49) + 2 \cdot B$	$H + M \cdot 5 \cdot K$	postal_code
<input checked="" type="checkbox"/>	14	input	fld_6491630	text	$H + M \cdot P(-0.49) + 2 \cdot B$	$H + M \cdot 7 \cdot K$	city
<input checked="" type="checkbox"/>	15	input	fld_4863078	text	$H + M \cdot P(-0.6) + 2 \cdot B$	$H + M \cdot 15 \cdot K$	odos_arithmos
<input checked="" type="checkbox"/>	16	input	fld_4984552	text	$H + M \cdot P(-0.49) + 2 \cdot B$	$H + M \cdot 5 \cdot K$	postal_code
<input checked="" type="checkbox"/>	17	select	fld_1265967	select-one	$H \cdot P(-0.54)$	$2 \cdot B \cdot P(-0.44) + 2 \cdot B$	
<input checked="" type="checkbox"/>	18	select	fld_5934648	select-one	$P(-0.45)$	$2 \cdot B \cdot P(-0.5) + 2 \cdot B$	
<input checked="" type="checkbox"/>	19	textarea	fld_6566084	textarea	$M \cdot P(-0.42) + 2 \cdot B$	$H + 101 \cdot K$	paratiriseis
<input checked="" type="checkbox"/>	20	input	fld_6307197[opt1890333]	checkbox	$H \cdot P(-0.91)$	$2 \cdot B$	
<input checked="" type="checkbox"/>	21	input	fld_3322678[opt1890333]	checkbox	$P(-0.98)$	$2 \cdot B$	
<input checked="" type="checkbox"/>	22	input	fld_7007738	submit	$M \cdot P(-0.59)$	$2 \cdot B$	

KLM Result

$M \cdot P(-0.86) + 2 \cdot B + H + M \cdot 10 \cdot K + H + M \cdot P(-0.49) + 2 \cdot B + H + M \cdot 10 \cdot K + H + M \cdot P(-0.49) + 2 \cdot B + H + M \cdot 10 \cdot K + H + P(-0.54) + 2 \cdot B \cdot P(-0.68) + 2 \cdot B \cdot P(-0.24) + 2 \cdot B \cdot P(-0.94) + 2 \cdot B \cdot M \cdot P(-0.65) + 2 \cdot B \cdot H + M \cdot 6 \cdot K + H + M \cdot P(-0.54) + 2 \cdot B \cdot H + M \cdot 10 \cdot K + H + M \cdot P(-0.61) + 2 \cdot B \cdot H + M \cdot 14 \cdot K + H + M \cdot P(-0.54) + 2 \cdot B \cdot H + M \cdot 14 \cdot K + H + M \cdot P(-0.54) + 2 \cdot B \cdot H + M \cdot 21 \cdot K + H + M \cdot P(-0.67) + 2 \cdot B \cdot H + M \cdot 15 \cdot K + H + M \cdot P(-0.49) + 2 \cdot B \cdot H + M \cdot 5 \cdot K + H + M \cdot P(-0.49) + 2 \cdot B \cdot H + M \cdot 7 \cdot K + H + M \cdot P(-0.6) + 2 \cdot B \cdot H + M \cdot P(-0.98) + 2 \cdot B \cdot M \cdot P(-0.49) + 2 \cdot B \cdot H + M \cdot 5 \cdot K + H + P(-0.54) + 2 \cdot B \cdot P(-0.44) + 2 \cdot B \cdot P(-0.45) + 2 \cdot B \cdot P(-0.5) + 2 \cdot B \cdot M \cdot P(-0.42) + 2 \cdot B \cdot H + 101 \cdot K + H + P(-0.91) + 2 \cdot B \cdot P(-0.98) + 2 \cdot B \cdot M \cdot P(-0.59) + 2 \cdot B$

KLM Sum Up

28H+28M+ΣPi+50B+243K

KLM Predicted Time (sec)

83.93

XML Export

Ζητούμενο 2

A/A	Εργασία	Χρόνος κατά KLM	
1	Επιλογή εισιτηρίου “student” από drop down list	$T_H + T_M + T_P + 2 * T_B + T_P + 2 * T_B$	$0,4 + 1,2 + 1,1 + 2 * 0,1 + 1,1 + 2 * 0,1 = 4,2sec$
2	Επιλογή ημερομηνίας	$T_M + T_P + 2 * T_B + T_P + 2 * T_B$	$1,2 + 1,1 + 2 * 0,1 + 1,1 + 2 * 0,1 = 3,8sec$
3	Button- έλεγχος διαθεσιμότητας	$T_M + T_P + 2 * T_B$	$1,2 + 1,1 + 2 * 0,1 = 2,5sec$
4	Text- Όνομα φοιτητή με 9 ψηφία	$T_M + T_P + 2 * T_B + T_H + T_M + 10 * T_K$	$1,2 + 1,1 + 2 * 0,1 + 0,4 + 1,2 + 10 * 0,2 = 6,1sec$
5	Text-Επώνυμο φοιτητή με 9 ψηφία	$T_H + T_M + T_P + 2 * T_B + T_H + T_M + 10 * T_K$	$0,4 + 1,2 + 1,1 + 2 * 0,1 + 0,4 + 1,2 + 10 * 0,2 = 6,5sec$
6	Text-Email φοιτητή με 25 ψηφία	$T_H + T_M + T_P + 2 * T_B + T_H + T_M + 26 * T_K$	$0,4 + 1,2 + 1,1 + 2 * 0,1 + 0,4 + 1,2 + 26 * 0,2 = 9,7sec$
7	Button- επισκόπηση καταχωρήσεων	$T_H + T_M + T_P + 2 * T_B$	$0,4 + 1,2 + 1,1 + 2 * 0,1 = 2,9sec$
8	Επισκόπηση απαντήσεων	χρόνος επισκόπησης	7sec
9	Submit	$T_M + T_P + 2 * T_B$	$1,2 + 1,1 + 2 * 0,1 = 2,5sec$
(+)	$T_1 + T_2 + T_3 + T_4 + T_5 + T_6 + T_7 + T_8 + T_9 =$		= 45,2sec

$T_M=1.2sec$ $T_P=1.1sec$ $T_B=0.1sec$ $T_H=0.4sec$ $T_K=0.2sec$ (Average Typist)

- **Εντολή επιλογής:** $T_M + T_P + 2 * T_B + T_P + 2 * T_B$
- **Εντολή button-submit:** $T_M + T_P + 2 * T_B$
- **Εντολή text:** $T_M + T_P + 2 * T_B + T_H + T_M + n * T_K$ (όπου n ο αριθμός των πλήκτρων)
- Στα πεδία όνομα και επώνυμο έχουμε ένα επιπλέον T_K για την απενεργοποίηση του caps lock.
- Στο πεδίο email έχουμε ένα επιπλέον T_K για το shift για το χαρακτήρα «@».