Instructions

First-price No Communication Treatment

Welcome to ESSL

Welcome to the ESSL Lab, and thank you for participating in today's experiment.

Place all of your personal belongings away, so we can have your complete attention.

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Raise your hand if you need a writing utensil.

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Client Startup	When the computer prompts you to Log In, type the number appearing on the upper left sticker on your monitor (ESSL #).
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- The value is determined randomly between 0.00 and 100.00 (all equally likely).

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- Each of you will submit a bid. It can be any non-negative number (with up to two decimal points).
- Whomever in your pair submits the higher bid will win the item.
- If both pair members submit the same bid then each has a 50% chance to win the item.
- The winner of the item will receive his or her value for the item minus the price, which equals the highest bid.

Example 1:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 40.00
- •You win the item
- •Price of the item is 51.50
- Your payoff

65.00 - 51.50 = 13.50 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 55.70
- •Your partner wins the item
- •Price of the item is 55.70
- Your payoff

0 points

Your partner's payoff

his/her value of the item – 55.70 points

Screenshot

Subject ID: 3

_ 0 <u>_ X</u>

Your Value for the item is 77.64

Please type your bid below and click the submit button.

Submit Bid

Your History

						Switch to Tabbed View
Match	Round	Item Value	Your Bid	Highest Bid	Price	Your Profit
1	1	56.89	32.00	32.00	32.00	24.89
2	1	80.71	3.00	23.00	23.00	0.00
3	1	77.64				

The End of a Round - Recording

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The Overall Experiment

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You need not tell any other participant how much you have earned.

Let the Experiment Begin!

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If there are no questions, we will now begin the actual experiment.

Instructions

First-price Pure Communication Treatment

(random matching protocol)

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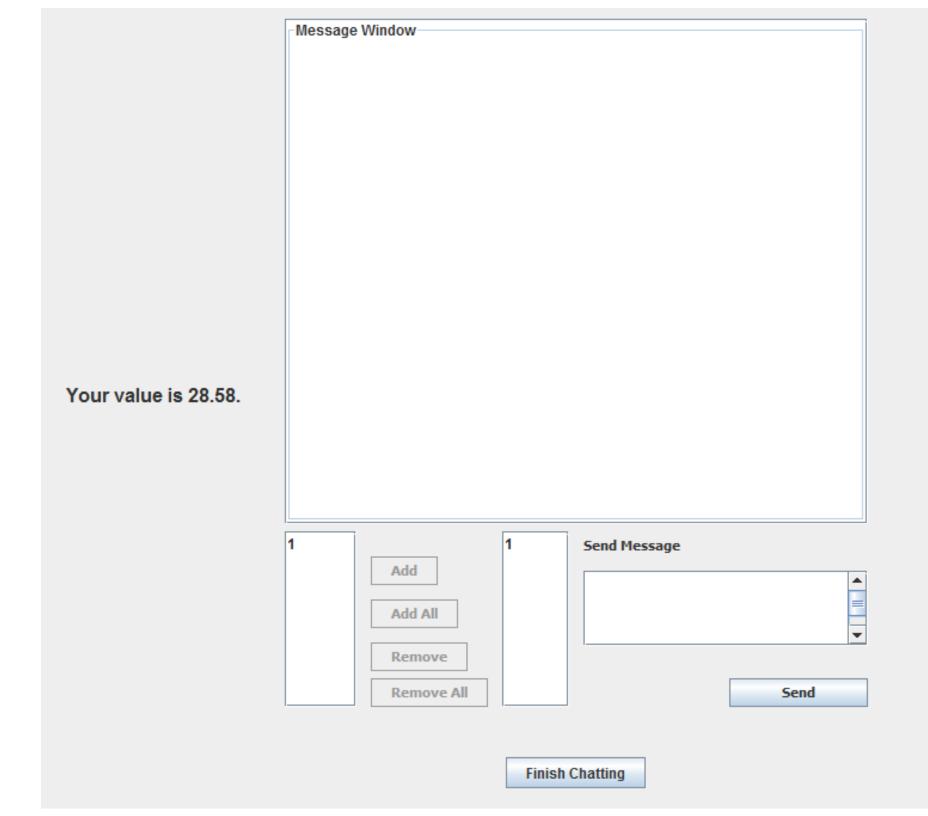
The Structure of the Experiment

 In each auction, *after* you observe your value for the item and *before* you submit your bid, you will be able to communicate with the subject paired with you through a chat box.

 You can send any message to the subject you are paired with and you will observe all messages sent to you by him/ her.

The Structure of the Experiment

- To send a message, simply type your message in the box underneath the Message Window and hit SEND.
- When you want to finish chatting, press the Finish Chatting button. You will not be able to exchange messages after either you or your partner pressed the Finish Chatting button.



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The Overall Experiment

- When the instructions are done, you will get to try one round of practice (unpaid).
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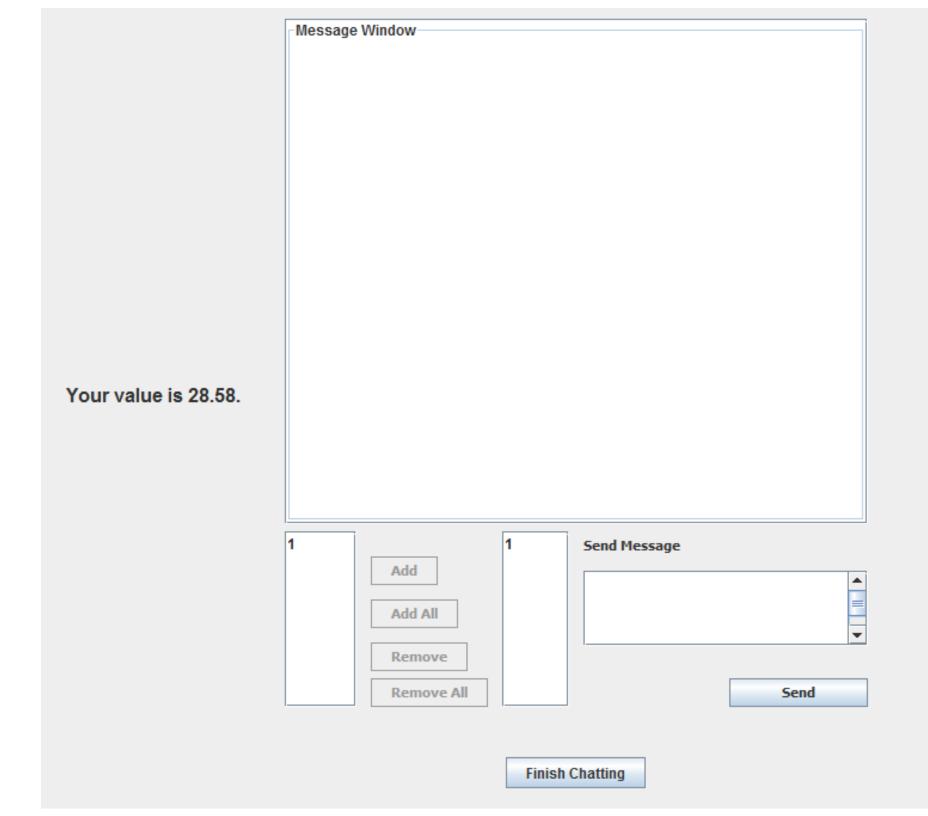
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(random matching protocol)

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Your partner's payoff

0 points

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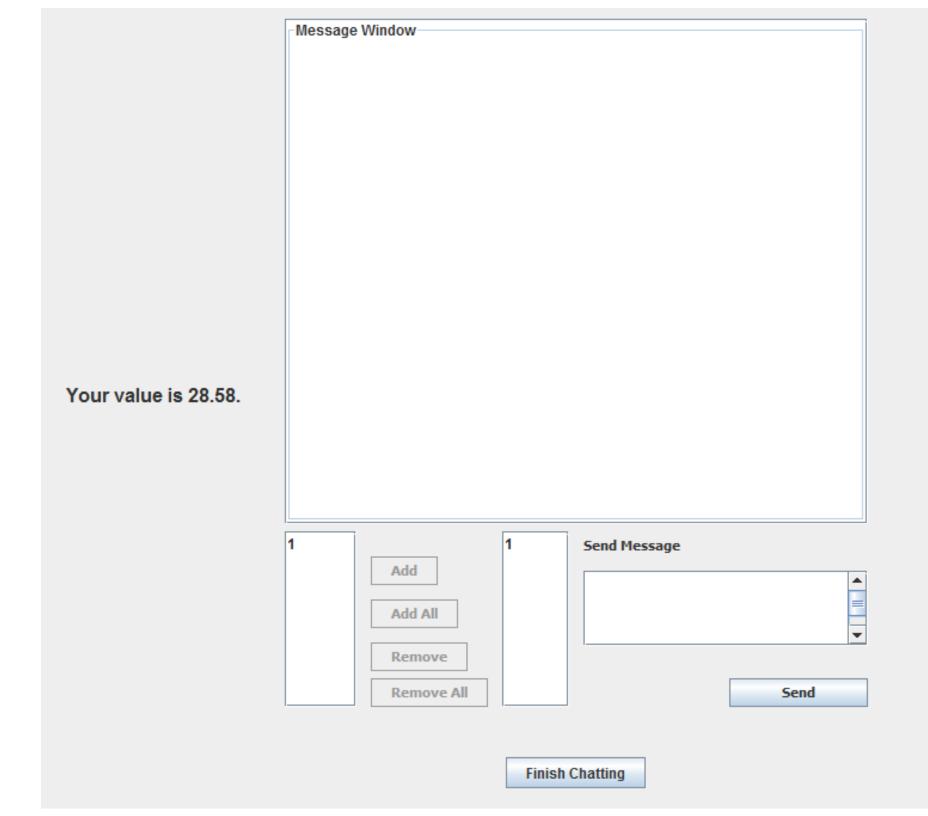
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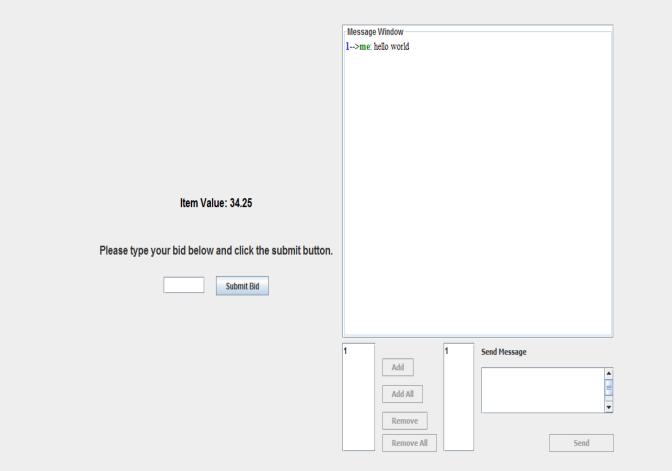
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Match 1 Mate	ch 2						
Normal Match							Switch to Full View
Fotal Payoff t	his Match: 0 (\$0.00)						
	Round	Item Value	Your Bid	Highest Bid	Price	Your Profit	
	1	34.25					

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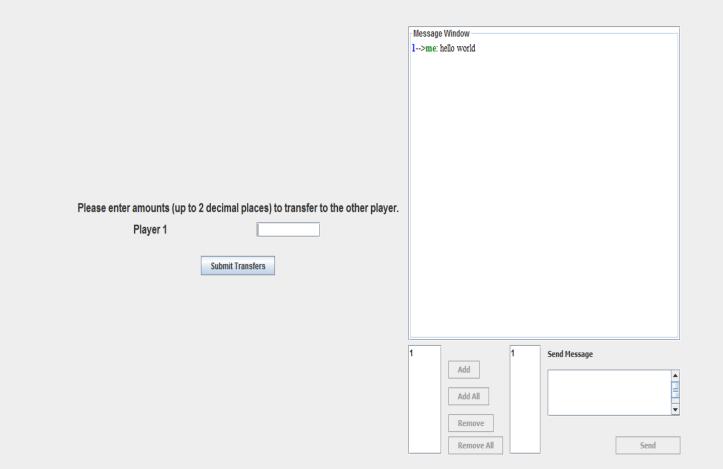
•You will then observe the winning bid, the price of the item, and whether you won the auction or not (history panel).

•After bids have been submitted, and the winner of the item has been determined, you will be able to transfer points to the subject paired with you.

•The points you transfer will be subtracted from your earnings (and added to your partner's) at the end of that round.

•You can enter any non-negative number and then click Submit Transfer. (If you don't want to transfer any points, enter zero).

•The subject paired with you will similarly have an opportunity to transfer points to you.



Your History

Match 1 Match 2					
Normal Match					Switch to Full View
Fotal Payoff this Match: <mark>0 (\$0.00)</mark>					
Round	Item Value	Your Bid	Highest Bid	Price	Your Profit
1	34.25	10.00	10.00	2.00	32.25

Finally, you will the observe the winning bid, the price of the item, whether you won the auction or not and your total earnings in that round's auction, accounting for the transfers made.

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First-price Communication and Transfers Treatment

(complete strangers matching protocol)

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Your partner's payoff

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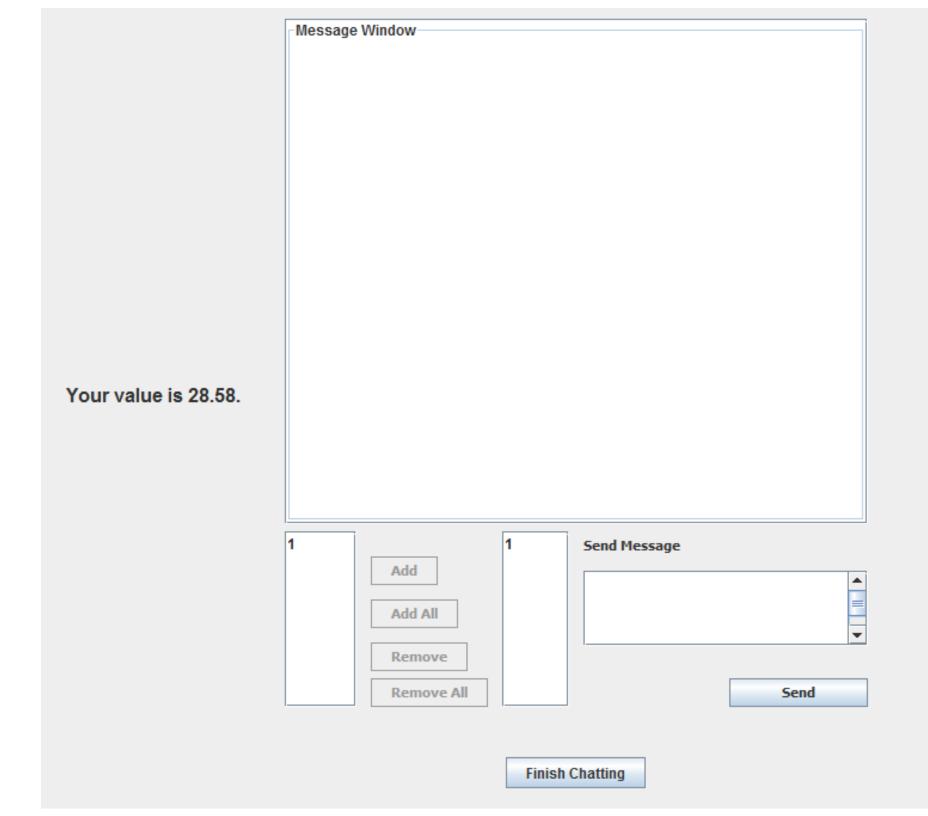
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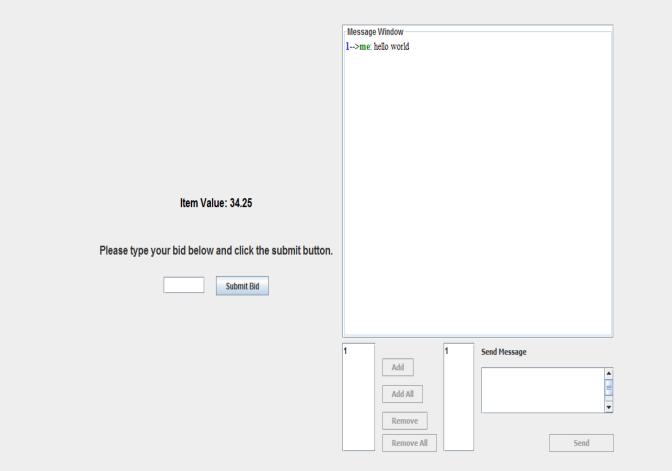
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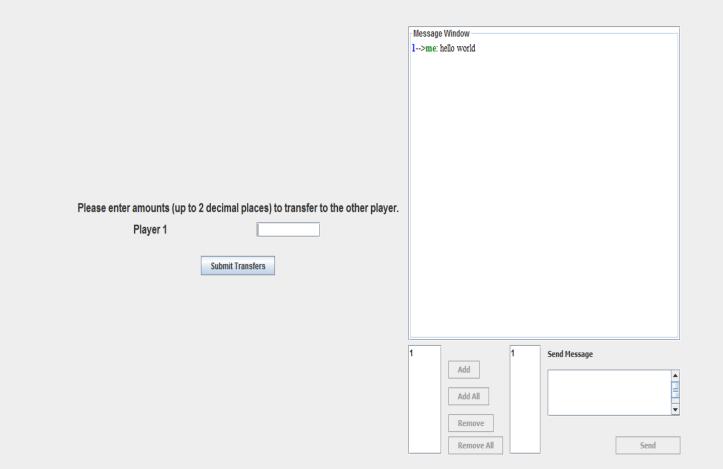
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his/her value of the item – 55.70 points

The End of a Round - Recording

At the end of each round, please record the details of the round on the provided sheet (please fill id now).

The Overall Experiment

- When the instructions are done, you will get to try one round of practice (unpaid). After that, the experiment begins.
- The experiment is structured as follows.
- In each round, there is a 10% chance that it is the last round of the experiment.
- You will start by playing 10 rounds of the experiment.
- In the first 10 rounds you will not be told whether the experiment has ended or not during these 10 rounds.

The Overall Experiment, cont...

- At the end of round 10, you will be told whether the experiment has ended or not, and if it ended in which round:
 - If the experiment has ended before round 10, then this is the end of the session.
 - If the experiment has not ended, then you will play another round and learn at the end of **that round** if the experiment has ended or proceed to the next round, etc. (termination probability = 10%).
- You will be paid for all rounds that occurred before the experiment has ended.
- Remember that in all rounds of the experiment you will be playing with the same subject you were paired with at the beginning of the experiment.

Your Earnings



Today **20 point = 1 dollar**.

You will be paid at the end of the experiment the total amount you have earned in all rounds but the practice round.

You need not tell any other participant how much you have earned.

Let the Experiment Begin!

To ensure your privacy and that of others in the experiment, please pull out the dividers as far as they will go.

If there are no questions, we will now begin the actual experiment.

Instructions

First-price Repeated with Communication Treatment

Welcome to ESSL

Welcome to the ESSL Lab, and thank you for participating in today's experiment.

Place all of your personal belongings away, so we can have your complete attention.

It is very important that you do not touch the computer until you are instructed to do so. When you are told to use the computer, please use it only as instructed. In particular, do <u>not</u> attempt to browse the web or use programs unrelated to the experiment.

Raise your hand if you need a writing utensil.

The Experiment

In today's experiment, you will participate in a series of auctions.

You will be paid for your participation in cash. Each of you may earn different amounts. How much you earn depends on your and others' decisions.

You will be using the computer for the entire experiment, and all interaction between you and others will be through the computer terminals.

Please DO NOT socialize or talk.

Computer Instructions

We will go through the details of the experiment and computer practice session very slowly and it is important that you follow the instructions.

If you have any questions, raise your hand and your question will be answered so everyone can hear.

Again, please do not hit any keys until you are told to do so, and when you are told to enter information, type exactly what you are told to type.

Log On Screen

Client Startup	When the computer prompts you to Log In, type the number appearing on the upper left sticker on your monitor (ESSL #).
Client Information	
Name:	
Host: 131.215.22.116	
Submit	
	Then click "submit" to confirm.

The Experiment

- At the beginning of the experiment, the computer will randomly divide you into pairs.
- Throughout the experiment, you will interact only with the subject you were paired with at the beginning of the experiment.
- In each round, each of you will have a value for an item that you will be bidding for.
- The value is determined randomly between 0.00 and 100.00 (all equally likely).

The Experiment

- At the beginning of the experiment, the computer will randomly divide you into pairs.
- Throughout the experiment, you will interact only with the subject you were paired with at the beginning of the experiment.
- In each round, each of you will have a value for an item that you will be bidding for.
- The value is determined randomly between 0.00 and 100.00 (all equally likely).
- You will know your own value, but you will not know your partner's value for the item.

- Each of you will submit a bid. It can be any non-negative number (with up to two decimal points).
- Whomever in your pair submits the higher bid will win the item.
- If both pair members submit the same bid then each has a 50% chance to win the item.
- The winner of the item will receive his or her value for the item minus the price, which equals the highest bid.

Example 1:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 40.00
- •You win the item
- •Price of the item is 51.50
- Your payoff

65.00 - 51.50 = 13.50 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 55.70
- •Your partner wins the item
- •Price of the item is 55.70
- Your payoff

0 points

Your partner's payoff

his/her value of the item – 55.70 points

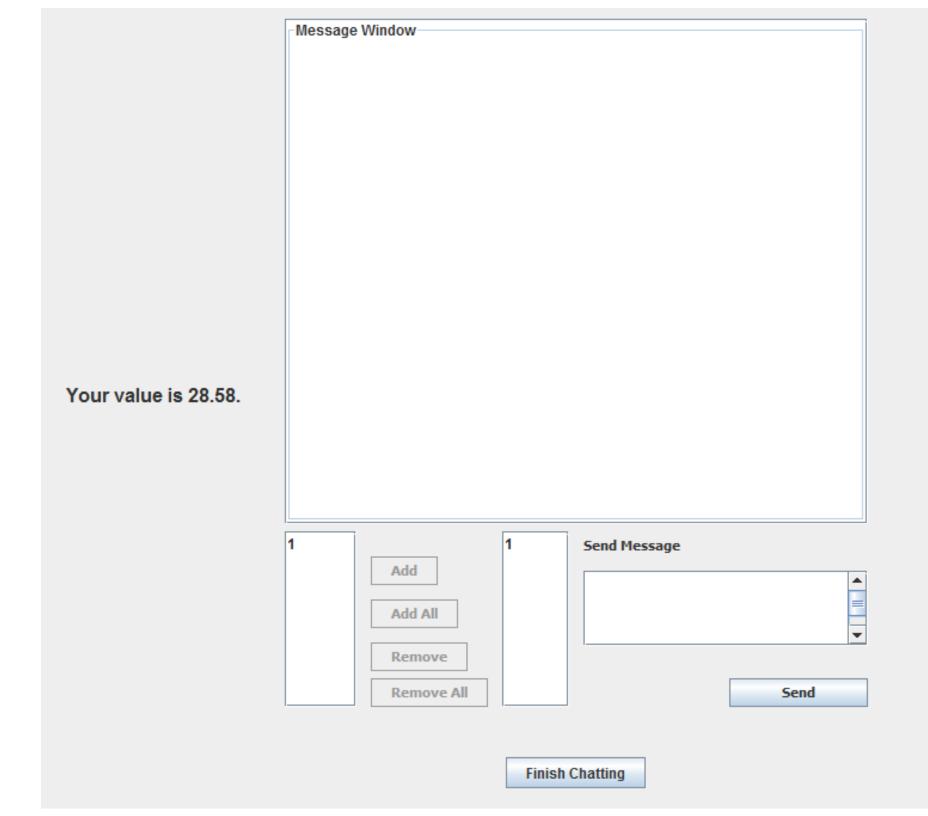
The Structure of the Experiment

 In each auction, *after* you observe your value for the item and *before* you submit your bid, you will be able to communicate with the subject paired with you through a chat box.

 You can send any message to the subject you are paired with and you will observe all messages sent to you by him/ her.

The Structure of the Experiment

- To send a message, simply type your message in the box underneath the Message Window and hit SEND.
- When you want to finish chatting, press the Finish Chatting button. You will not be able to exchange messages after either you or your partner pressed the Finish Chatting button.



The End of a Round - Recording

At the end of each round, please record the details of the round on the provided sheet (please fill id now).

The Overall Experiment

- When the instructions are done, you will get to try one round of practice (unpaid). After that, the experiment begins.
- The experiment is structured as follows.
- In each round, there is a 10% chance that it is the last round of the experiment.
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- Remember that in all rounds of experiment you will be playing with the same subject you were paired with at the beginning of the experiment.

Your Earnings



Today **20 point = 1 dollar**.

You will be paid at the end of the experiment the total amount you have earned in all rounds but the practice round.

You need not tell any other participant how much you have earned.

Let the Experiment Begin!

To ensure your privacy and that of others in the experiment, please pull out the dividers as far as they will go.

If there are no questions, we will now begin the actual experiment.

Instructions

Second-price No Communication Treatment

Welcome to ESSL

Welcome to the ESSL Lab, and thank you for participating in today's experiment.

Place all of your personal belongings away, so we can have your complete attention.

It is very important that you do not touch the computer until you are instructed to do so. When you are told to use the computer, please use it only as instructed. In particular, do <u>not</u> attempt to browse the web or use programs unrelated to the experiment.

Raise your hand if you need a writing utensil.

The Experiment

In today's experiment, you will participate in a series of auctions.

You will be paid for your participation in cash. Each of you may earn different amounts. How much you earn depends on your and others' decisions.

You will be using the computer for the entire experiment, and all interaction between you and others will be through the computer terminals.

Please DO NOT socialize or talk.

Computer Instructions

We will go through the details of the experiment and computer practice session very slowly and it is important that you follow the instructions.

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Client Information	
Name:	
Host: 131.215.22.116	
Submit	
	Then click "submit" to confirm.

The Experiment

- In each round, you will be randomly paired with another subject in the room.
- Each of you will have a value for an item that you will be bidding for.
- The value is determined randomly between 0.00 and 100.00 (all equally likely).

The Experiment

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- If both pair members submit the same bid then each has a 50% chance to win the item.
- The winner of the item will receive his or her value for the item minus the price, which equals the second highest bid.

Example 1:

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- •You submit a bid of 51.50
- •Your partner submits a **bid** of 40.00
- •You win the item
- •Price of the item is 40.00
- Your payoff

65.00 – 40.00 = 25.00 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 57.00
- •Your partner wins the item
- •Price of the item is 51.50
- Your payoff

0 points

Your partner's payoff

his/her value of the item – 51.50 points

Screenshot

Subject ID: 3

_ 0 <u>_ X</u>

Your Value for the item is 77.64

Please type your bid below and click the submit button.

Submit Bid

Your History

						Switch to Tabbed View
Match	Round	Item Value	Your Bid	Highest Bid	Price	Your Profit
1	1	56.89	32.00	32.00	32.00	24.89
2	1	80.71	3.00	23.00	23.00	0.00
3	1	77.64				

The End of a Round - Recording

At the end of each round, please record the details of the round on the provided sheet (please fill id now).

The Overall Experiment

- When the instructions are done, you will get to try one round of practice (unpaid).
- After that, you will participate in 10 rounds of real play.
- In each round, you will randomly be matched with another subject.

Your Earnings



Today **30 point = 1 dollar**.

You will be paid at the end of the experiment the total amount you have earned in all rounds but the practice round.

You need not tell any other participant how much you have earned.

Let the Experiment Begin!

To ensure your privacy and that of others in the experiment, please pull out the dividers as far as they will go.

If there are no questions, we will now begin the actual experiment.

Instructions

Second-price Pure Communication Treatment

(random matching protocol)

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- Your payoff

65.00 – 40.00 = 25.00 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
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- Your payoff

0 points

Your partner's payoff

his/her value of the item – 51.50 points

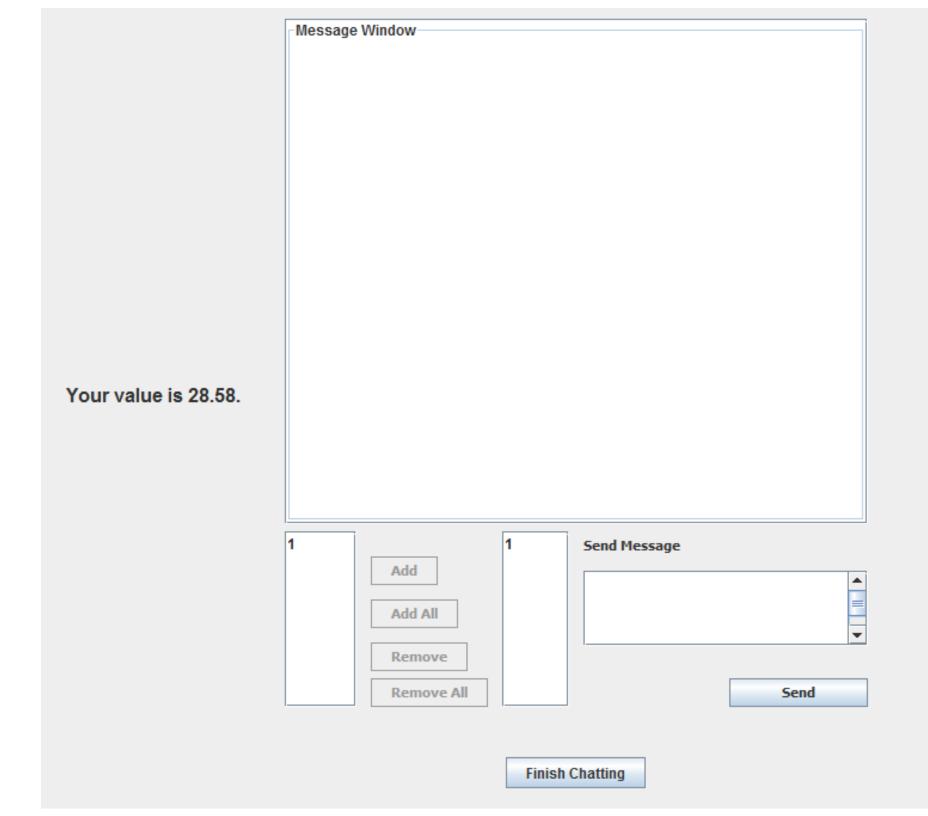
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The End of a Round - Recording

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Instructions

Second-price Pure Communication Treatment

(complete strangers matching protocol)

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- •Price of the item is 40.00
- Your payoff

65.00 – 40.00 = 25.00 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 57.00
- •Your partner wins the item
- •Price of the item is 51.50
- Your payoff

0 points

Your partner's payoff

his/her value of the item – 51.50 points

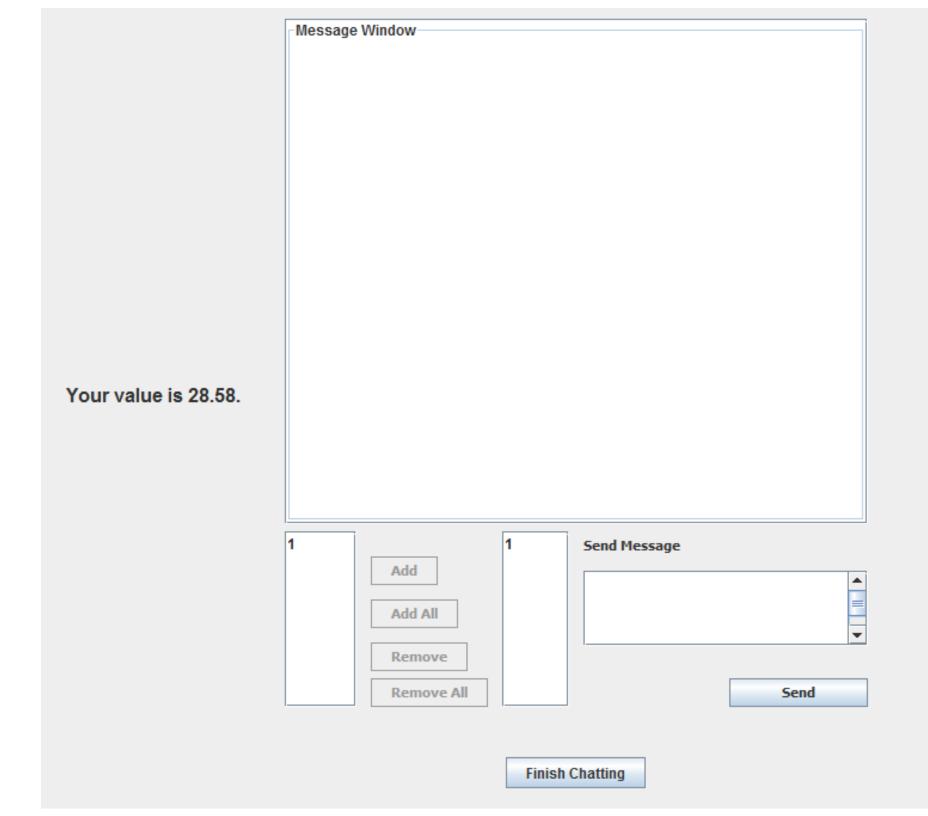
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 You can send any message to the subject you are paired with and you will observe all messages sent to you by him/ her.

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- To send a message, simply type your message in the box underneath the Message Window and hit SEND.
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The End of a Round - Recording

At the end of each round, please record the details of the round on the provided sheet (please fill id now).

The Overall Experiment

- When the instructions are done, you will get to try one round of practice (unpaid).
- After that, you will participate in 10 rounds of real play.
- In each round, you will randomly be matched with another subject and you will never interact with any of the participants more than once.

Your Earnings



Today **30 point = 1 dollar**.

You will be paid at the end of the experiment the total amount you have earned in all rounds but the practice round.

You need not tell any other participant how much you have earned.

Let the Experiment Begin!

To ensure your privacy and that of others in the experiment, please pull out the dividers as far as they will go.

If there are no questions, we will now begin the actual experiment.

Instructions

Second-price Communication and Transfers Treatment

(random matching protocol)

Welcome to ESSL

Welcome to the ESSL Lab, and thank you for participating in today's experiment.

Place all of your personal belongings away, so we can have your complete attention.

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Client Information	
Name:	
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The Experiment

- In each round, you will be randomly paired with another subject in the room.
- Each of you will receive a value for an item that you will be bidding for. This value represents how much the item is worth to you in points.
- These values are determined randomly by the computer. All values are between 0.00 and 100.00 (all equally likely).

The Experiment

- In each round, you will be randomly paired with another subject in the room.
- Each of you will receive a value for an item that you will be bidding for. This value represents how much the item is worth to you in points.
- These values are determined randomly by the computer. All values are between 0.00 and 100.00 (all equally likely).

 You will know your own value, but you will not know your partner's value for the item.

- Each of you will submit a bid. It can be any non-negative number (with up to two decimal points).
- Whoever in your pair submits the higher bid will win the item.
- If both pair members submit the same bid then each has a 50% chance to win the item.
- The winner of the item will receive his or her value for the item minus the price, which equals the second highest bid.

Example 1:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 40.00
- •You win the item
- •Price of the item is 40.00
- Your payoff

65.00 – 40.00 = 25.00 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 57.00
- •Your partner wins the item
- •Price of the item is 51.50
- Your payoff

0 points

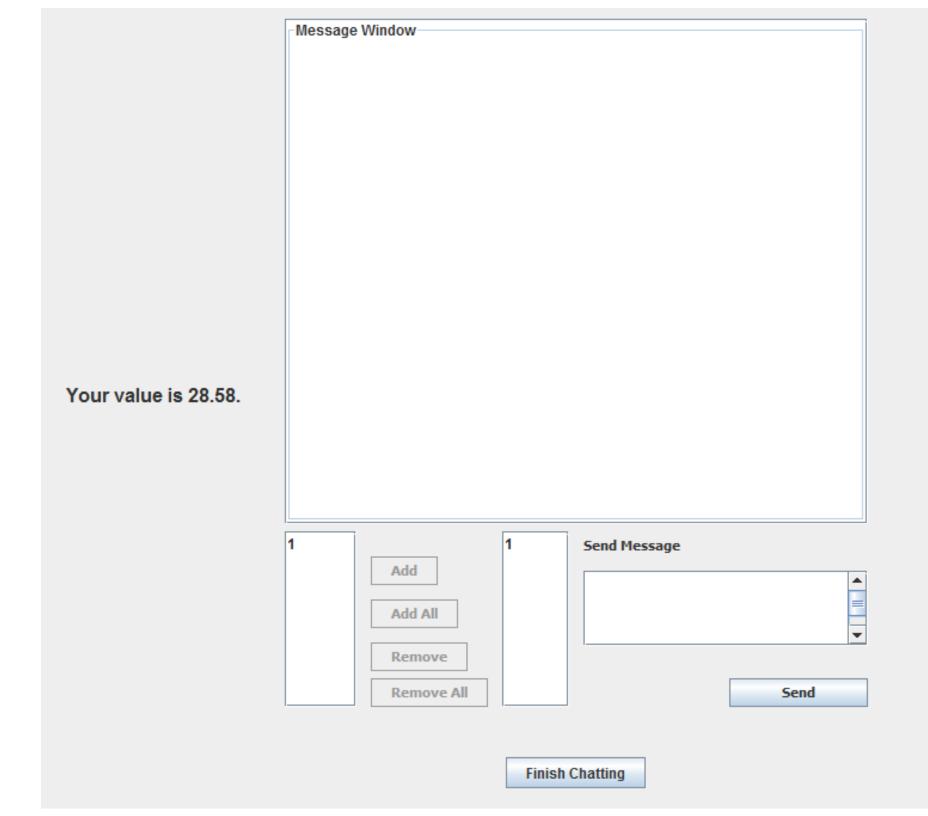
Your partner's payoff

his/her value of the item – 51.50 points

 In each auction, *after* you observe your value for the item and *before* you submit your bid, you will be able to communicate with the subject paired with you through a chat box.

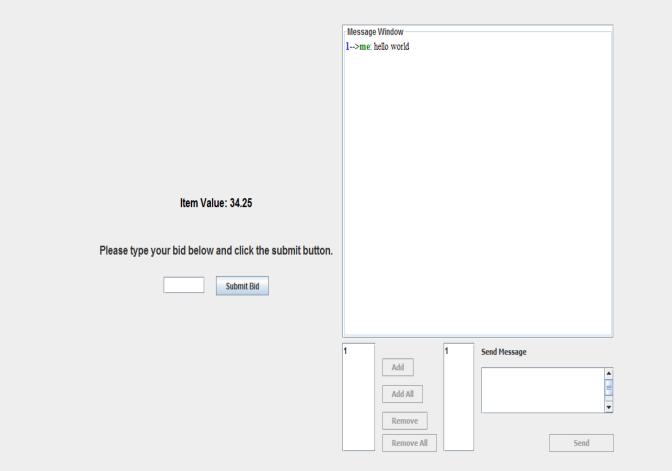
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- To send a message, simply type your message in the box underneath the Message Window and hit SEND.
- When you want to finish chatting, press the Finish Chatting button. You will not be able to exchange messages after either you or your partner pressed the Finish Chatting button.



•After the communication is over you will be asked to submit **your bid**.

•You and the subject paired with you will submit your bids simultaneously.





Match 1 Mate	ch 2						
Normal Match							Switch to Full View
Fotal Payoff t	his Match: 0 (\$0.00)						
	Round	Item Value	Your Bid	Highest Bid	Price	Your Profit	
	1	34.25					

•After the communication is over you will be asked to submit your bid.

•You and the subject paired with you will submit your bids simultaneously.

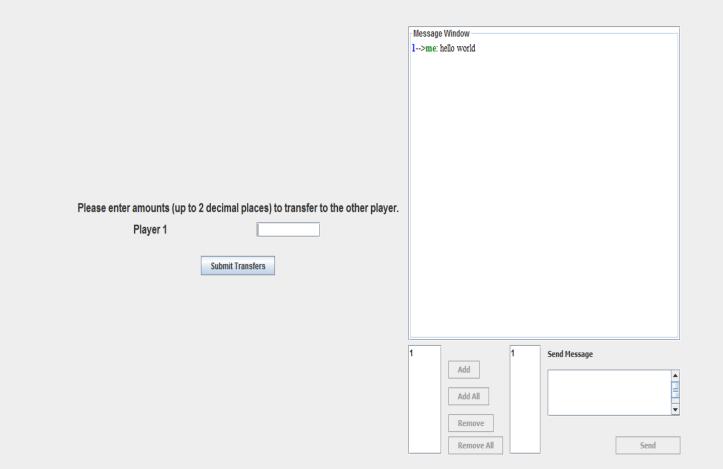
•You will then observe the winning bid, the price of the item, and whether you won the auction or not (history panel).

•After bids have been submitted, and the winner of the item has been determined, you will be able to transfer points to the subject paired with you.

•The points you transfer will be subtracted from your earnings (and added to your partner's) at the end of that round.

•You can enter any non-negative number and then click Submit Transfer. (If you don't want to transfer any points, enter zero).

•The subject paired with you will similarly have an opportunity to transfer points to you.



Your History

Match 1 Match 2					
Normal Match					Switch to Full View
Fotal Payoff this Match: <mark>0 (\$0.00)</mark>					
Round	Item Value	Your Bid	Highest Bid	Price	Your Profit
1	34.25	10.00	10.00	2.00	32.25

Finally, you will the observe the winning bid, the price of the item, whether you won the auction or not and your total earnings in that round's auction, accounting for the transfers made.

The End of a Round - Recording

At the end of each round, please record the details of the round on the provided sheet (please fill id now).

The Overall Experiment

•After one auction is over, you will be randomly re-matched with another participant and the next auction will begin.

•Before we start the experiment, we will go slowly through a practice round. Your earnings in this practice round do not affect your payment.

•After the practice round, you will participate in 10 auctions. We will sum up all the points you earned in these 10 auctions and convert them to US dollars.

Your Earnings



Today **30 points = 1 dollar**.

You will be paid at the end of the experiment the total amount you have earned in all rounds but the practice round.

You need not tell any other participant how much you have earned.

Instructions

Second-price Communication and Transfers Treatment

(complete strangers matching protocol)

Welcome to ESSL

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The Experiment

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- •Your partner submits a **bid** of 40.00
- •You win the item
- •Price of the item is 40.00
- Your payoff

65.00 – 40.00 = 25.00 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
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- •Your partner wins the item
- •Price of the item is 51.50
- Your payoff

0 points

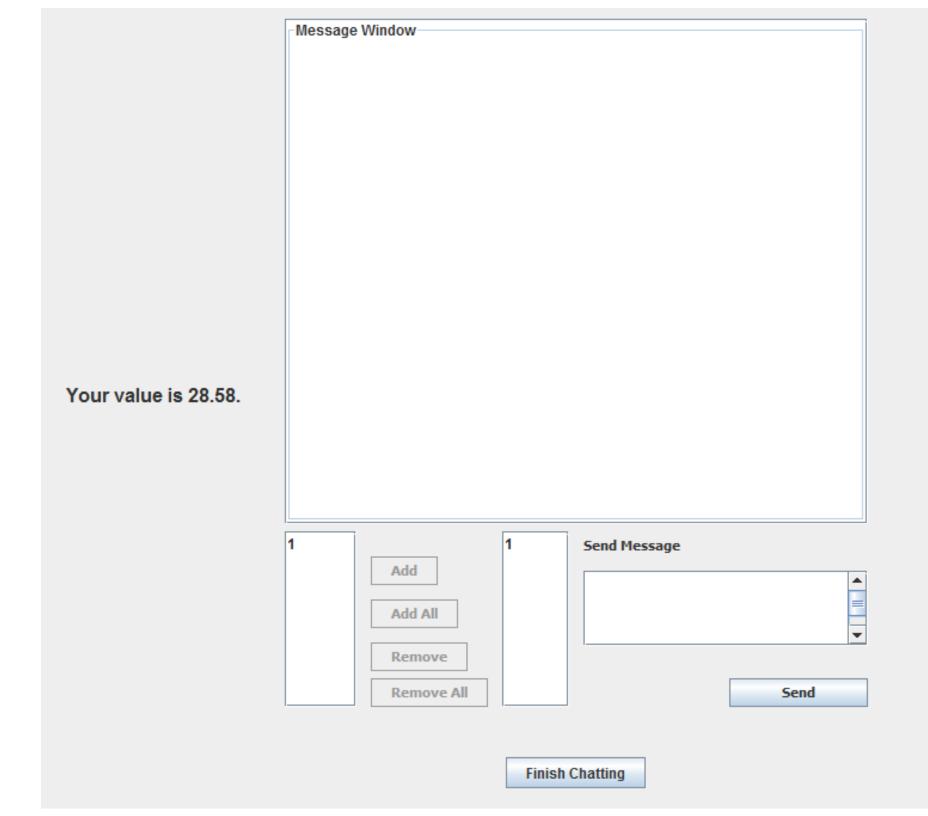
Your partner's payoff

his/her value of the item – 51.50 points

 In each auction, *after* you observe your value for the item and *before* you submit your bid, you will be able to communicate with the subject paired with you through a chat box.

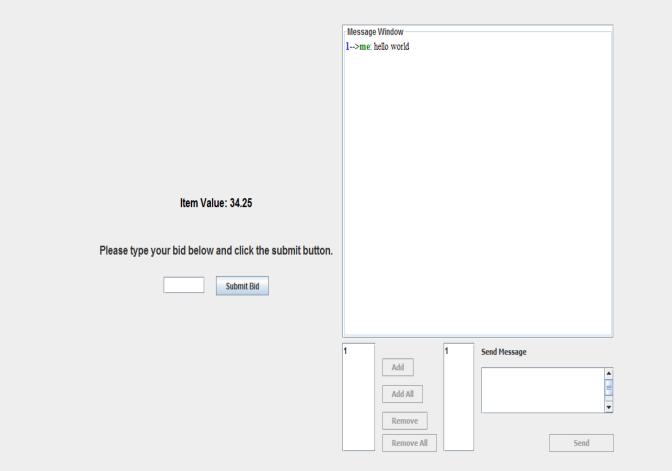
 You can send any message to the subject you are paired with and you will observe all messages sent to you by him/ her.

- To send a message, simply type your message in the box underneath the Message Window and hit SEND.
- When you want to finish chatting, press the Finish Chatting button. You will not be able to exchange messages after either you or your partner pressed the Finish Chatting button.



•After the communication is over you will be asked to submit **your bid**.

•You and the subject paired with you will submit your bids simultaneously.





Match 1 Mate	ch 2						
Normal Match							Switch to Full View
Fotal Payoff t	his Match: 0 (\$0.00)						
	Round	Item Value	Your Bid	Highest Bid	Price	Your Profit	
	1	34.25					

•After the communication is over you will be asked to submit your bid.

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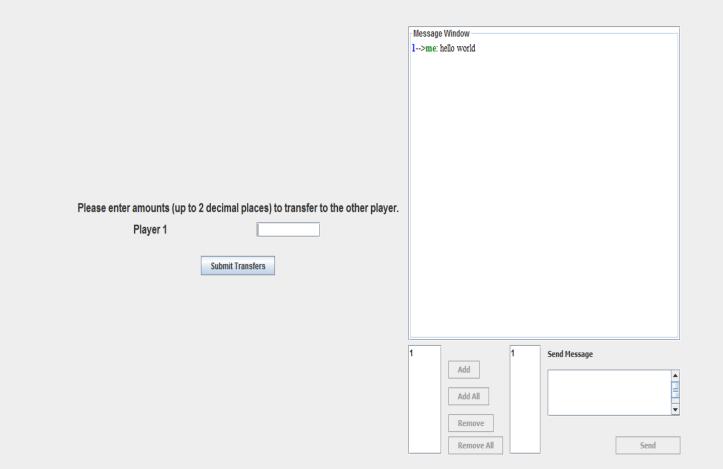
•You will then observe the winning bid, the price of the item, and whether you won the auction or not (history panel).

•After bids have been submitted, and the winner of the item has been determined, you will be able to transfer points to the subject paired with you.

•The points you transfer will be subtracted from your earnings (and added to your partner's) at the end of that round.

•You can enter any non-negative number and then click Submit Transfer. (If you don't want to transfer any points, enter zero).

•The subject paired with you will similarly have an opportunity to transfer points to you.



Your History

Match 1 Match 2					
Normal Match					Switch to Full View
Fotal Payoff this Match: <mark>0 (\$0.00)</mark>					
Round	Item Value	Your Bid	Highest Bid	Price	Your Profit
1	34.25	10.00	10.00	2.00	32.25

Finally, you will the observe the winning bid, the price of the item, whether you won the auction or not and your total earnings in that round's auction, accounting for the transfers made.

The End of a Round - Recording

At the end of each round, please record the details of the round on the provided sheet (please fill id now).

The Overall Experiment

•After one auction is over, you will be randomly re-matched with another participant and the next auction will begin. You will never interact with the same participant more than once.

•Before we start the experiment, we will go slowly through a practice round. Your earnings in this practice round do not affect your payment.

•After the practice round, you will participate in 10 auctions. We will sum up all the points you earned in these 10 auctions and convert them to US dollars.

Your Earnings



Today **30 points = 1 dollar**.

You will be paid at the end of the experiment the total amount you have earned in all rounds but the practice round.

You need not tell any other participant how much you have earned.

Instructions

Second-price Repeated without Communication Treatment

Welcome to ESSL

Welcome to the ESSL Lab, and thank you for participating in today's experiment.

Place all of your personal belongings away, so we can have your complete attention.

It is very important that you do not touch the computer until you are instructed to do so. When you are told to use the computer, please use it only as instructed. In particular, do <u>not</u> attempt to browse the web or use programs unrelated to the experiment.

Raise your hand if you need a writing utensil.

The Experiment

In today's experiment, you will participate in a series of auctions.

You will be paid for your participation in cash. Each of you may earn different amounts. How much you earn depends on your and others' decisions.

You will be using the computer for the entire experiment, and all interaction between you and others will be through the computer terminals.

Please DO NOT socialize or talk.

Computer Instructions

We will go through the details of the experiment and computer practice session very slowly and it is important that you follow the instructions.

If you have any questions, raise your hand and your question will be answered so everyone can hear.

Again, please do not hit any keys until you are told to do so, and when you are told to enter information, type exactly what you are told to type.

Log On Screen

Client Startup	When the computer prompts you to Log In, type the number appearing on the upper left sticker on your monitor (ESSL #).
Client Information	
Name:	
Host: 131.215.22.116	
Submit	
	Then click "submit" to confirm.

The Experiment

- At the beginning of the experiment, the computer will randomly divide you into pairs.
- Throughout the experiment, you will interact only with the subject you were paired with at the beginning of the experiment.
- In each round, each of you will have a value for an item that you will be bidding for.
- The value is determined randomly between 0.00 and 100.00 (all equally likely).

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- In each round, each of you will have a value for an item that you will be bidding for.
- The value is determined randomly between 0.00 and 100.00 (all equally likely).
- You will know your own value, but you will not know your partner's value for the item.

- Each of you will submit a bid. It can be any non-negative number (with up to two decimal points).
- Whoever in your pair submits the higher bid will win the item.
- If both pair members submit the same bid then each has a 50% chance to win the item.
- The winner of the item will receive his or her value for the item minus the price, which equals the second highest bid.

Example 1:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 40.00
- •You win the item
- •Price of the item is 40.00
- Your payoff

65.00 – 40.00 = 25.00 points

Your partner's payoff

0 points

Example 2:

- •Suppose your value of the item is 65.00
- •You submit a bid of 51.50
- •Your partner submits a **bid** of 57.00
- •Your partner wins the item
- •Price of the item is 51.50
- Your payoff

0 points

Your partner's payoff

his/her value of the item – 51.50 points

The End of a Round - Recording

At the end of each round, please record the details of the round on the provided sheet (please fill id now).

The Overall Experiment

- When the instructions are done, you will get to try one round of practice (unpaid). After that, the experiment begins.
- The experiment is structured as follows.
- In each round, there is a 10% chance that it is the last round of the experiment.
- You will start by playing 10 rounds of the experiment.
- In the first 10 rounds you will not be told whether the experiment has ended or not during these 10 rounds.

The Overall Experiment, cont...

- At the end of round 10, you will be told whether the experiment has ended or not, and if it ended in which round:
 - If the experiment has ended before round 10, then this is the end of the session.
 - If the experiment has not ended, then you will play another round and learn at the end of **that round** if the experiment has ended or proceed to the next round, etc. (termination probability = 10%).
- You will be paid for all rounds that occurred before the experiment has ended.
- Remember that in all rounds of the experiment you will be playing with the same subject you were paired with at the beginning of the experiment.

Your Earnings



Today **20 point = 1 dollar**.

You will be paid at the end of the experiment the total amount you have earned in all rounds but the practice round.

You need not tell any other participant how much you have earned.

Let the Experiment Begin!

To ensure your privacy and that of others in the experiment, please pull out the dividers as far as they will go.

If there are no questions, we will now begin the actual experiment.

Instructions

Second-price Repeated with Communication Treatment

Welcome to ESSL

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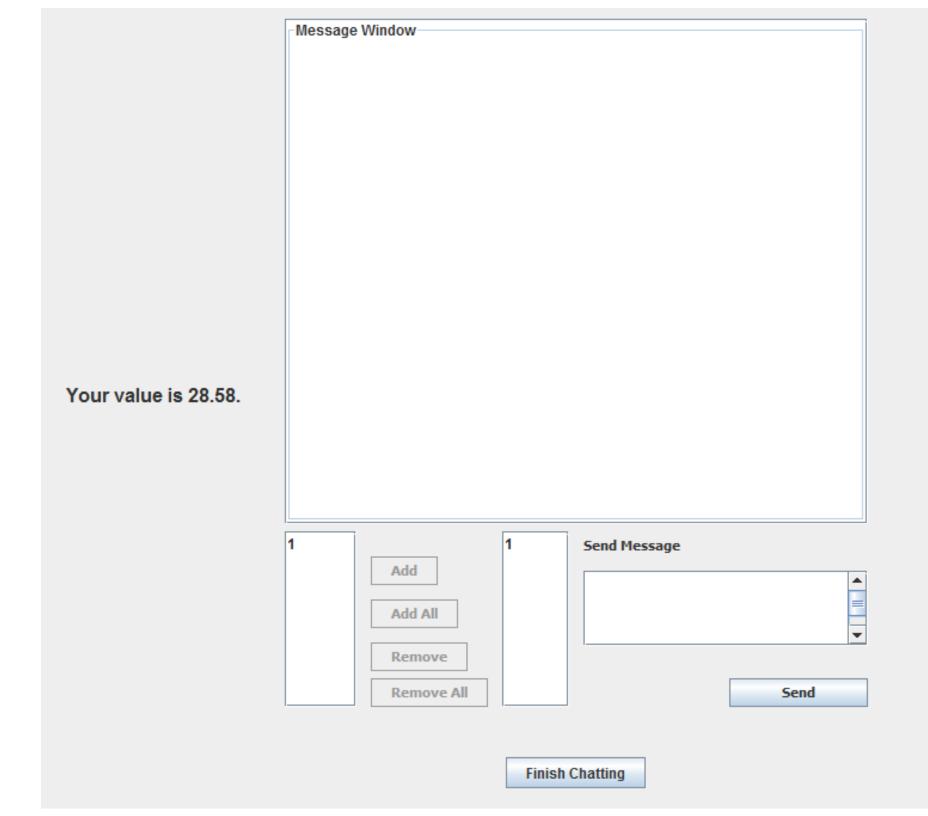
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