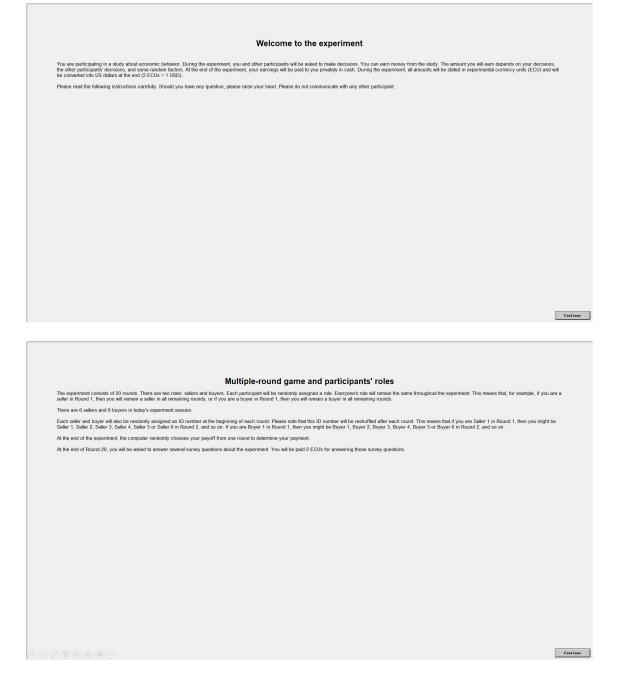
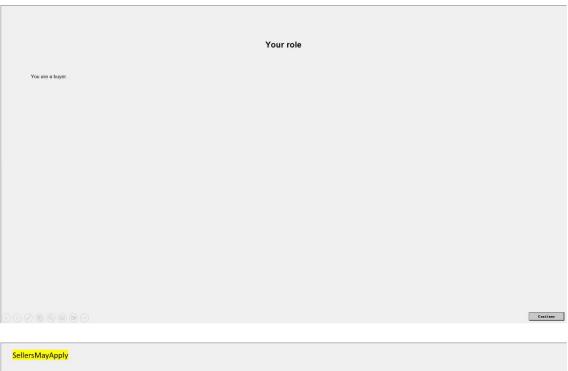
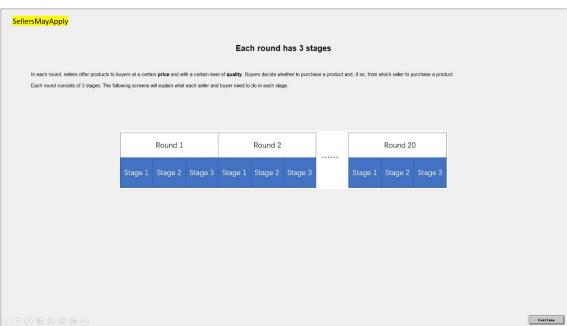
Appendix B: Experimental Instructions





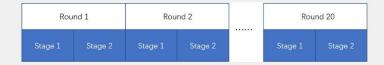


RandomTesting

Each round has 2 stages

In each round, seliers offer products to buyers at a certain price and with a certain level of quality. Buyers decide whether to purchase a product and, if so, from which select to purchase a product.

Each round consists of 2 stages. The following screens will explain what each seller and buyer need to do in each stage.



Continue



Stage 1: Each seller sets quality and price of his/her product

In Stage 1 of each round, each seller individually determines the quality and price of his/her product.

The quality each seller can set for his/her product can be 1, 2 or 3. The larger the number is, the higher the quality

Each seller can set a non-negative price for his/her product.

The number of products a seller sells is equal to how many buyers decide to purchase from this seller (which we will explain in Stage 3).

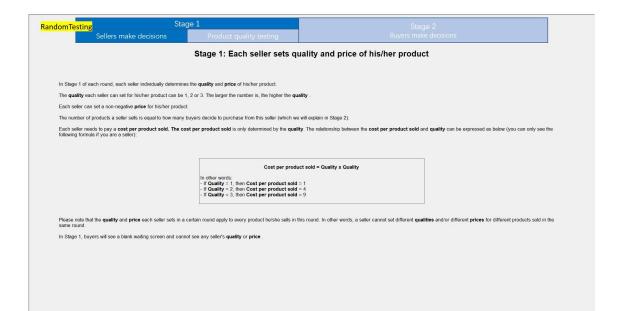
Each seller needs to pay a cost per product sold. The cost per product sold is only determined by the quality. The relationship between the cost per product sold and quality can be expressed as below (you can only see the following formula if you are a seller):

Cost per product sold = Quality x Quality
In other words:

- If Quality = 1, then Cost per product sold = 1
- If Quality = 2, then Cost per product sold = 4
- If Quality = 3, then Cost per product sold = 9

Please note that the quality and price each seter sets in a certain round apply to every product he/she sets in this round. In other words, a setler cannot set different qualities and/or different prices for different products sold in the same round.

In Stage 1, buyers will see a blank waiting screen and cannot see any seller's quality or price .



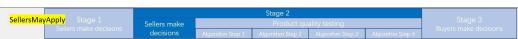
RandomTesting Stage 1 Stage 2
Sellers make decisions Product quality testing Buyers make decisions

Stage 1: The quality testing organization randomly reveals the qualities of 2 sellers' products

After all sellers have decided the quality and price of their products, a quality testing organization will randomly select 2 sellers' products, among all 6 sellers' products, to reveal the qualities of these 2 sellers' products to buyers in Stage 2. The quality testing organization is simulated by the computer in today's experiment.

The qualities of the other 4 sellers' products, which are not randomly selected by the quality testing organization, will be hidden from buyers in Stage 2.

Continue



Stage 2: Each seller decides whether to apply for quality testing

After all sellers have decided the qualities and prices of their products, all sellers will move on to Stage 2.

In Stage 2, each seller can see the quality and price of all 6 sellers.

Each seler needs to decide whether to apply for quality testing oranization and selers submit their decisions of whether to apply for quality testing organization will select at most 2 selers' products to reveal their qualities to buyers in Stage 3.

The qualities of products of all sellers NOT revealed by the quality testing organization will be hidden to buyers in Stage 3.

In Slage 2, each seler needs to decide:

- Whether to apply for quality testing

- If heshed applies for quality testing

- If heshed applies for quality testing, heshe is required to report the quality of his/her product to the quality testing organization. This reported quality can be true or false.

Each seller who chooses to apply for quality testing is required to pay an application deposit of 0.1 ECUs. Each seller whose product meets certain criteria, which we will explain later, will be returned the application deposit at the end of Stage 2.

All buyers will continue seeing a blank waiting screen and cannot see any seller's quality or price in Stage 2.

The next screen will explain how the quality testing organization selects and reveals the true qualities of at most 2 sellers' products.

Continue



Stage 2: The quality testing organization reveals the qualities of at most 2 sellers' products

After all solers decide whether to apply for quality testing and report the qualities of their products (if applying), the quality testing organization will use an algorithm to select all most 2 selers' products to reveal their qualities to buyers an in Stage 3. Below are the steps of this algorithm:

- Algorithm Step 1: Among all applying products, the quality testing organization selects products which meet ALL of the following 3 criteria into a candidate

oct

- (Criterion 1): Its reported quality should be 2 or 3.

- (Criterion 2): Its price should the lowest among all applying products with the same reported quality.

- (Criterion 2): Its reported quality is 2, its price should be lower than the lowest price among all applying products with reported quality 3. If its reported quality is 2, its price should be lower than the lowest price among all applying products with reported quality 3. If its reported quality is 3, then Criterion 3 is always satisfied.

The quality testing organization returns the application deposit (0.1 ECUs) to all applying sellers whose products are selected into the candidate pool, locatiffun sites 2.

- * Allocation despite and reported with reported quality? Zero in the candidate pool, (those products should have the same price).

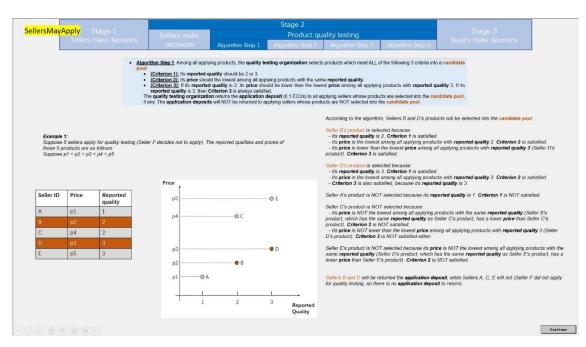
 **Allocation despite 21: If more than one product with reported quality? Zero in the candidate pool (those products better product) and the price).

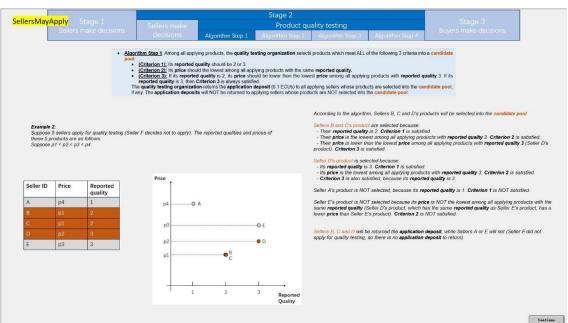
 **Algorithm Step 2.2: If more than one product with reported quality? In the candidate pool, should be pool. Select it into the final testing pool If there is no product with reported quality? In the candidate pool, should be pool.

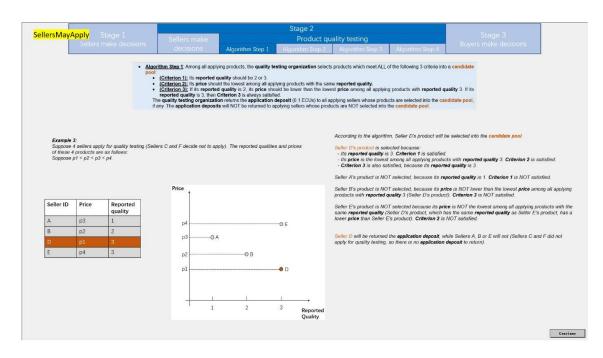
 **Algorithm Step 2.2: If more than one product with reported quality? are in the candidate pool. (these products should have the same price), reaching select one of them into the final testing pool. If there is no growth or pool that the product of the product in the final testing pool. If there is no product with reported quality 3 in the candidate pool, should be pool to the size allocation. See 3. The quality testing organization to less and risks of the true qualities of all products in the final testing pool if there is no product with reported quality, the quality testing organization invests to bryons the true qualities of step 2.2.

 **It is products for true quality is the same as its reported quality, the quality testing organization invests to bryons the true quality of this product in Stap 3.

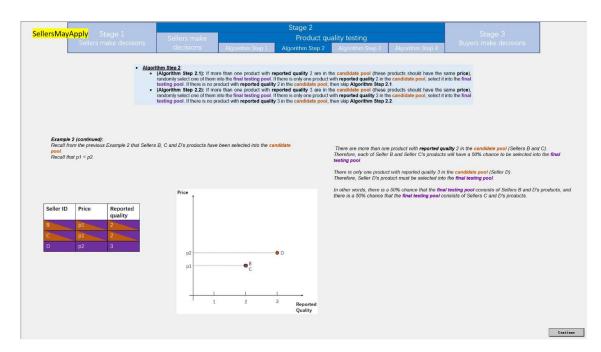
- It a products true quality is the same as its reported quality, the quality beginn or granization invests to crystin an time quality of the product in a final product in the product of the product

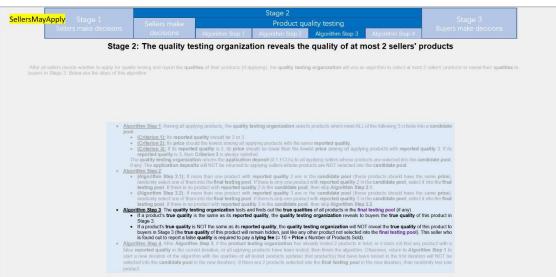


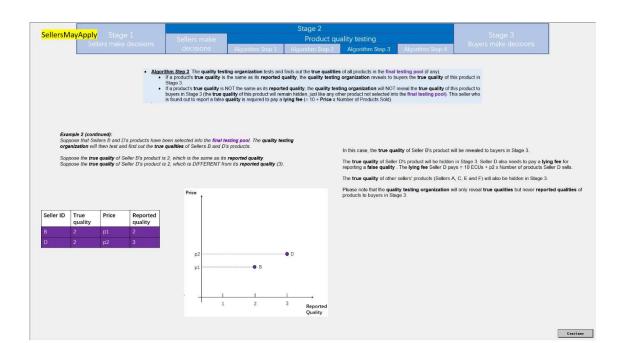














Stage 2: The quality testing organization reveals the quality of at most 2 sellers' products

After all sellers decide whether to apply for quality testing and report the qualities of their products (if applying), the quality testing and report the qualities of their products (if applying), the quality testing and report the steps of this algorithm.

- Algorithm Step 1 Among all applying products, the quality testing organization selects products which most ALL of the following 3 criteria into a candidate.

 - old
 [Critistion 1]: Its reported quality should be 2 or 3

 [Critistion 1]: Its price should like bowed entering all applying products with the same reported quality.

 [Critistion 2]: Its price should like bowed entering all applying products with the following the control of the contr
- If any. The application deposits will NOT be returned to applying sellers whose products are NLUT selected must are cardiouse power.

 Alcoritims Size 2.

 (Algoritims Size 2.): If more than one product with reported quality 2 are in the candidate pool (these products should have the same price), andoning select one of them into the final testing pool. If there is only one product with reported quality? In the candidate pool, select 2 are the min to the final testing pool. If there is no product with reported quality? In the candidate pool, select 2 are of the min to the final testing pool. If there is no growth or the product should have the same price), andoning select care of them into the final testing pool. If there is no growth or the product of the product should have the same price), and only select care of the min to the final testing pool. If there is no product with reported quality 3 in the candidate pool, then size Algorithm Step 2.2.

 **Algoritims Step 2.7: The quality testing organization to lists and finition can be true qualities of that testing pool (if any).

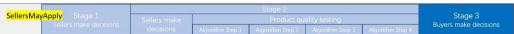
 **If a product's true quality of the sum or size reported quality, the quality testing organization reveals to known that the quality of this product in Step 3.
- If a product's true quality is the same as its reported quality, the quality testing organization reveals to tayers the true quality of this product in Stage 3.

 If a product's true quality is NOT the same as its reported quality, the quality testing organization will NOT reveal the true quality of this product to buyers in Stage 3 (the true quality of the product will remain hidden, pat like any other product not selected into the final testing pool). The select who is found out to report a false quality is required to pay a lying feet; or 10 Price x Named or (Products Stot).

 Algorithm Step 3. After Algorithm Step 3, if the product testing organization has afready tested 2 products in total, or if does not find any product with a false reported quality in the current terration, or all applying products have been tested, then finish the algorithm. Otherwise, return to Algorithm Step 1 to start a new iteration of the algorithm with the qualities of all tested products updated (but product(s) that have been tested in the first iteration will NOT be selected into the candidate pool in the new iteration,) If there are 2 products selected into the final testing pool in the new iteration, then randomly test one product.

13	SellersMayApply Sellers May Apply Sellers May Ap
	Seller's payoff
	In each round, each seller's payoff from this round is calculated as below.
	Seller's payoff = (Price - Cost per product sold) x Number of products sold - Application deposit paid (if relevant) + Application deposit returned (if relevant) - Lying fee paid (if relevant)
	Centines





Stage 3: Buyers purchase a product from a seller

In Stage 3, each buyer can see the prices of all 6 sellers and the true qualities of at most two sellers revealed by the quality testing organization.

Each buyer decides whether to purchase a product from a seller. If so, each buyer decides from which seller to purchase at most one product.

Each buyer's payoff in a round is determined by three factors: (1) the true quality of the product he/she purchases; (2) the price of the product, (3) the buyer's individual valuation of quality.

Different buyers value the quality of a product differently. Among all 6 buyers, there are two types of buyers. The table below summarizes each buyer's individual valuation of quality:

Buyer ID	Individual valuation of quality	
Buyer 1	4.	
Buyer 2	4	
Buyer 3	4	
Buyer 4	8	
Buyer 5	8	
Buyer 6	8	

For example, if you are Buyer 1 in a round, then your **individual valuation of quality** in this round will be 4. If you are Buyer 4 in a round, then your **individual valuation of quality** will be 8 in this round. Recall that each buyer's ID will be reshuffled in a new round. This means that your **individual valuation of quality** might also be reshuffled in a new round.

Continue



Stage 2: Buyers purchase a product from a seller

In Stage 2, each buyer can see the prices of all 6 sellers and the qualities of two sellers revealed by the quality testing organization.

Each buyer decides whether to purchase a product from a seller. If so, each buyer decides from which seller to purchase at most one product.

Each buyer's payoff in a round is determined by three factors: (1) the quality of the product he/she purchases; (2) the price of the product; (3) the buyer's individual valuation of quality.

Different buyers value the quality of a product differently. Among all 6 buyers, there are two types of buyers. The table below summarizes each buyer's individual valuation of quality:

Buyer ID	Individual valuation of quality	
Buyer 1	4	
Buyer 2	4	
Buyer 3	4	
Buyer 4	8	
Buyer 5	8	
Buyer 6	8	

For example, if you are Buyer 1 in a round, then your individual valuation of quality in this round will be 4. If you are Buyer 4 in a round, then your individual valuation of quality will be 8 in this round. Recall that each buyer's ID will be reshuffled in a new round. This means that your individual valuation of quality might also be reshuffled in a new round.

Buyer's payoff Buyer's payoff In each round, if a buyer purchases a product, then his/her payoff in this round is calculated as below. Buyer's payoff = Individual valuation of quality x True quality of the product - Price of the product If a buyer chooses not to purchase any product, then his/her payoff in this round is: Buyer's payoff = 0 Constituent.

What buyers know about the cost per product sold

Recall that each seller needs to pay a cost for each product sold (which is called **cost per product sold**).

The formula of cost per product sold is not visible to buyers. However, the following information about the cost per product sold is provided to buyers:

- Cost per product sold is only determined by quality. The higher the quality, the higher the cost per product sold.
- Suppose that products with qualities 1, 2 and 3 all have a price equal to the corresponding cost per product sold (in other words, a product with quality 1 has a price equal to the cost per product sold of a quality 1 product, a product with quality 2 has a price equal to the cost per product sold of a quality 3 product), then:
 - If you are a buyer whose individual valuation of quality is 4, then among all these three types of products, you get the highest payoff if you buy a product from a seller who offers a quality 2 product at a price equal to the cost per product sold of a quality 2 product. This payoff is strictly greater than 0.
 - If you are a buyer whose individual valuation of quality is 8, then among all these three types of products, you get the highest payoff if you buy a product from a seller who offers a quality 3 product at a price equal to the cost per product sold of a quality 3 product. This payoff is strictly greater than 0.





Apply		Summary of Instructions 2/3 Procedures	
	Stage 1	Stage 2	Stage 3
Sellers	Each seller decides the quality and price of his/her product.	 Each sellor soms the qualities and prices of all 6 sellors' products. Each sellor decides whether to apply for quality testing. If a sellor applies for quality lesting, he/sho pays an application deposit of 0.1 ECUs (this application deposit will be refurned to the sellor if inshire product is selected into the candidate pool). If a sellor can report a fact or quality is tested to the sellor reads to pay a flying fee (= 1.0 = Price x Number of Products Sold) if his/her product with a falser reported quality is tested, and the true quality of this product with not be revealed to buyers in Stage 3. 	Waiting for buyers to make decisions.
Buyers	Waiting for sellers to make decisions.	Waiting for sellers to make decisions.	Each buyer sees the price of each selle Each buyer sees the true qualities of most 2 sellers' products revealed by it quality testing organization. The true qualities of other products are hidden. Each buyer decides from which seller purchase one product. Each buyer ce also decide not to purchase any product.
Quality Testing Organization (Simulated by the computer)		After all sollers docide whether to apply for quality testing and report the quality of their products (if applying), the quality testing organization will use an algorithm to select at most 2 select in most 2 select products to seven their true qualities to buyers in Step 3. The algorithm consists of 3 steps. **Algorithm Step 1** Among all applying products, the quality testing organization selects products which meet ALL of the following 3 critises who a candidate pool. **Algorithm Step 1** Among all applying products, the quality testing organization selects products which meet ALL of the following 3 critises who a candidate pool. **Cinterion 2: It for seported quality is 2. Its price should be lower than the lowest price among all applying products with reported quality is 2. Its price should be lower than the lowest price among all applying products with reported quality is 2. Its price should be lower than the lowest price among all applying products with reported quality is 3. Its reported quality is 3. Its mort feating as a shaways satisfied. The quality testing organization roturns the application deposits on IROD the returned to applying sellers whose products are sellered into the candidate pool, if any the application deposits with NOT be returned to applying sellers whose products are sellered into the candidate pool, if any the application deposits with NOT be returned to applying sellers whose products are NOT selected and the candidate pool, and the product with reported quality 2 are in the candidate pool (there is not product with reported quality 2 in the candidate pool, item shap Algorithm Step 2.1 **Algorithm Step 2.1** Inner them one product with reported quality 2 are in the candidate pool, then shap Algorithm Step 2.1 **Algorithm Step 2.1** Inner them one product with reported quality 3 in the candidate pool, then shap Algorithm Step 2.1 **Algorithm Step 2.1** Inner them one product with reported quality and the candidate pool, then shap Algorithm Step 2.2 **Algorithm Step 2.1**	

RandomTesting

Summary of Instructions 2/3 Procedures

	Stage 1	Stage 2
Sellers	Each seller decides the quality and price of his/her product.	Waiting for buyers to make decisions.
Buyers	Waiting for sellers to make decisions.	Each buyer sees the price of each seller. Each buyer sees the qualities of the 2 sellers' products revealed by the quality testing organization . The qualities of other products are hidden. Each buyer decides from which seller to purchase one product. Each buyer can also decide not to purchase any product.
Quality Testing Organization (Simulated by the computer)	After all sellers decide the qualities and prices of their products, the quality testing organization will randomly select 2 sellers! products to reveal their qualities to buyers in Stage 2. The qualities of all the other 4 sellers' products that are NOT randomly selected will be hidden from buyers in Stage 2.	

Summary of Instructions 3/3 **Payoffs**

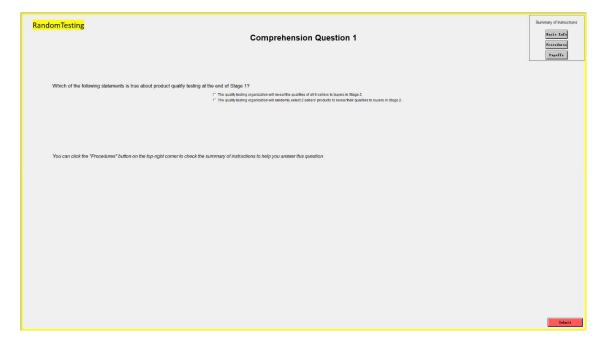
- Each participant's payoff in a round
 Each sellor's payoff =
 (Price Cost per product sold x Number of products sold Application deposit paid (if relevant) + Application deposit returned (if relevant) Lying fee paid (if relevant)
 Cost per product sold = Quality x Quality x Quality (only visible to sellers)
 Each buyer's payoff:
 Theiste purchases a product, then hisher payoff = Individual valuation of quality x True quality of the product. Price of the product.
 If heiste chooses not to purchase a product, then hisher payoff = 0.

- What buyers know about selers' cost per product sold
 Cost per product sold is only determined by quality. The higher the quality, the higher the cost per product sold.
 Cost per product sold is only determined by quality. The higher the quality the higher the cost per product sold.
 Suppose that products with quality all higher than 10 and 10 a

Comprehension Questions - Introduction

To ensure that you have fully understood the instructions of this experiment, you will be asked to answer several comprehension questions. You have unlimited number of attempts to correctly answer each question, but you must correctly answer all of them in order to proceed to the experiment. In addition, you will receive 22 ECUs for correctly answering all questions.

SellersMayApply Comprehension Question 1	Summary of Instructions Baxic Info Procedures Reyoffs
Recall that all sellers determine the quality and price of their products in Stage 1. At the beginning of Stage 2, what information can each seller see when deciding whether to apply for quality testing? Only the quality and price of this seller's comproduct. One quality and price of this seller's comproduct. The information.	
You can click the "Procedures" button on the top-right corner to check the summary of instructions to help you answer this question.	
	Submit





SellersMayApply

Comprehension Question 2: Introduction

Suppose in a certain round, at the end of Stage 2, six sellers make the following decisions on qualities, prices and whether to apply for quality testing.

According to the quality testing algorithm, which seller(s)' true qualities will be revealed to buyers in Stage 3?

Seller ID	True quality	Price	Apply for quality testing?	Reported quality
Seller A	2	1.00	Apply	2
Seller B	1	2.00	Apply	1
Seller C	2	3.00	Apply	2
Seller D	3	4.00	Not Apply	
Seller E	2	5.00	Apply	3
Seller F	3	5.00	Apply	3

To make it easier for you to solve this question, let's decompose this question into several steps.

If you are ready to move on, please click "Continue".

SellersMayApply

Comprehension Question 2.1

Suppose in a certain round, at the end of Stage 2, six sellers make the following decisions on qualities, prices and whether to apply for qualcording to the quality testing algorithm, which seller[s] true qualities will be revealed to buyers in Stage 3?

	True quality	Price	Apply for quality testing?	Reported quality
Seller A	2	1.00	Apply	2
Seller B	t	2.00	Apply	1
Seller C	2	3.00	Apply	2
Seller D	3	4.00	Not Apply	
Seller E	2	5.00	Apply	3
Seller F	3	5.00	Apply	3

Question 2.1: According to Algorithm Step 1, which product(s) will be selected into the candidate pool?

Recall that a seller's product will be selected into the **candidate pool** if his/her product satisfies all 3 criteria. To help you answer this question, please check whether each seller's product satisfies each of the 3 criteria (if you think a certain criterion is satisfied, please check the box in the corresponding cell). If a product satisfies all 3 crierta, then it should be selected into the **candidate pool**.

Seller ID	True quality	Price	Apply for quality testing?	Reported quality	Criterion 1 satisified?	Criterion 2 satisified?	Criterion 3 satisified?	Selected int candidate pool?
Seller A	2	1.00	Apply	2	r	г	П.	г
Seller B	1	2.00	Apply	1	г	F	Г	г
Seller C	2	3.00	Apply	2	г	г	г	г
Seller D	3	4.00	Not Apply					
Seller E	2	5.00	Apply	3	г	г	г	г
Seller F	3	5.00	Apply	3	r	-	E .	F

You can use the summary of quality testing algorithm below to help you answer this question:

satisfied.

The quality testing organization returns the application deposit (0.1 ECUs) to all applying sellers whose products are selected into the candidate pool, if any. The application deposits will NOT be returned to applying sellers whose products are NOT selected into the candidate pool.

Sellers May Apply

Comprehension Question 2.2

Suppose in a certain round, at the end of Slage 2, six sellers make the following decisions on qualities, prices and whether to apply for quality testing. According to the quality testing algorithm, which seller(s)' true qualities will be revealed to buyers in Stage 3?

Seller B Seller C Seller E

Your answer to the previous question is correct. Now let's continue to answer the following question.

Question 2.2: From Question 2.1, we know that Sellers A, E and F's products will be selected into the candidate pool. For each seller, please decide whether he/she will be turned the application deposit.

Hint: Application deposit will be returned to an applying seller if his/her product is selected into the candidate

Seller ID	True quality	Price	Apply for quality testing?	Reported quality	Selected into candidate pool?	Seller is returned the application deposit?
Seller A	2	1.00	Apply	2	Yes	C Yes C No
Seller B	1	2.00	Apply	1	No	C Yes
Seller C	2	3.00	Apply	2	No	C Yes
Seller D	3	4.00	Not Apply			
Seller E	2	5.00	Apply	3	Yes	C Yes C No
Seller F	3	5.00	Apply	3	Yes	C Yes

You can use the summary of quality testing algorithm below to help you answer this question:

- Algorithm Step 1: Among all applying products, the quality testing organization selects products which meet ALL of the following 3 ortleria into a candidate pool:
 Circiterion 11: Its reported quality should be 2 or 3.
 Circiterion 12: Its protee should the lowest among all applying products with the same reported quality.
 Circiterion 31: It its reported quality is 2, its price should be lower than the lowest price among all applying products with reported quality 3. If its reported quality is 3, then Criterion 3 is always satisfied.

applying products with reported quality 3. If its reported quality is 3, then Criterion 3 is always satisfied.

The quality testing organization returns the application deposit (0.1 ECUs) to all applying sellers whose products are selected into the candidate pool, if any. The application deposits will NOT be returned to applying sellers whose products are NOT selected into the candidate pool.

SellersMayApply

Comprehension Question 2.3

Suppose in a certain round, at the end of Stage 2, six sellers make the following decisions on qualities, prices and whether to apply for quality testing. According to the quality testing algorithm, which seller(s) true qualities will be revealed to buyers in Stage 3?

	True quality	Price	Apply for quality testing?	Reported quality
Seller A	2	1.00	Apply	2
Seller B	1	2.00	Apply	1
Seller C	2	3.00	Apply	2
Seller D	3	4.00	Not Apply	
Seller E	2	5.00	Apply	3
Seller F	3	5.00	Apply	3

You can use the summary of quality testing algorithm below to help you answer this question:

Your answer to the previous question is correct. Now let's continue to answer the following question.

Question 2.3: After Algorithm Step 1, Sellers A, E and F's products are selected into the candidate pool.

According to Algorithm Step 2, which seller(s)' product(s) will be selected into the final testing pool?

- Seleva A and PE products

 C Seleva A and PE products

 C Seleva F product must be selected. Each of Seleva E and PE products has a 50% chance to be selected.

 C Seleva F product must be selected. Each of Seleva E and PE products has a 50% chance to be selected.

 C Notice of the selected.

- Algorithm Siee 2:

 (Algorithm Siee 2:): If more than one product with reported quality 2 are in the candidate pool (these products should have the same price), randomly select one of them into the final testing pool. If there is only one product with reported quality 2 in the candidate pool, select it into the final testing pool. If there is no product with reported quality 2 in the candidate pool, select it into the final testing pool. If there is no product with reported quality 2 in the candidate pool, the six Algorithm Step 2.1:

 Algorithm Site 2.2: If more than one product with reported quality 3 in the candidate pool, select it into the final testing pool, if there is no product with reported quality 3 in the candidate pool, select it into the final testing pool, if there is no product with reported quality 3 in the candidate pool, then skip Algorithm Step 2.2:

SellersMayApply

Comprehension Question 2.4

Suppose in a certain round, at the end of Stage 2, six sellers make the following decisions on qualities, prices and whether to apply for quality testing. According to the quality testing algorithm, which seller(s)' true qualities will be revealed to buyers in Stage 3?

	True quality	Price	Apply for quality testing?	Reported quality
Seller A	2	2.00	Apply	2
Seller B	1	3.00	Apply	1
Seller C	2	4.00	Apply	2
Seller D	3	5.00	Not Apply	
Seller E	2	6.00	Apply	3
Seller F	3	6.00	Apply	3

Your answer to the previous question is correct. Now let's continue to answer the following question.

You can use the summary of quality testing algorithm below to help you answer this question: Suppose after Algorithm Step 2, Sellers A's product is selected into the final testing pool and Seller F's product is randomly selected into the final testing pool.

Question 2.4a: Which seller(s)' true qualities will be revealed to buyers in Stage 3?

Hint: You need to compare the true quality with the reported quality of Sellers A and F's products.

- C Saller As product only.
 C Saller Ps product only.
 Both Saller As and Saller Ps products.
 Neither Saller As product nor Saller Ps product.
- Question 2.4b is there any seller(s) who need(s) to pay a lying fee for reporting a false quality? If so, which seller (s) need to pay?

 - C Seller Aonly
 C Seller Fonly
 Both Seller A and Seller F.
 Neither Seller Anor Seller F.

- Algorithm Step 3: The quality testing organization tests and finds out the true qualities of all products in the final testing pool (if any).
 If a product's true quality is the same as its reported quality, the quality testing organization reveals to buyers the true quality of this product in Stage 3.
 If a product's true quality is NOT the same as its reported quality, the quality testing organization will NOT reveal the true quality is NOT the same as its reported quality, the quality of this product will remain hidden, just like any other product to selected into the final testing pool, This seller who is found out to report a false quality is required to pay a lying fee (= 10 + Price x Number of Products Sold).

Sellers May Apply

Comprehension Question 2.5

Suppose in a certain round, at the end of Stage 2, six selers make the following decisions on qualities, prices and whether to apply for quality testing. According to the quality testing algorithm, which seller(s)* true qualities will be revealed to buyers in Stage 3?

	True quality	Price	Apply for quality testing?	Reported quality
Seller A	2	2.00	Apply	2
Seller B	1	3.00	Apply	1
Seller C	2	4.00	Apply	2
Seller D	3	5.00	Not Apply	
Seller E	2	6.00	Apply	3
Seller F	3	6.00	Apply	3

Your answer to the previous question is correct. Now let's continue to answer the following question.

You can use the summary of quality testing algorithm below to help you answer this question:

Suppose after **Algorithm Step 2**, Sellers A's product is selected into the final **testing pool** and Seller E's product is randomly selected into the final **testing pool**.

Question 2.5a: Which seller(s)' true qualities will be revealed to buyers in Stage 3?

Hint: You need to compare the true quality with the reported quality of Sellers A and E's products.

- C Saller As product only
 Saller E's product only
 Both Saller As and Saller E's products.
 Neither Saller A's product nor Saller E's product.

Question 2.5b is there any seller(s) who need(s) to pay a lying fee for reporting a false quality? If so, which seller (s) need to pay?

- C Seller Aonly
 Seller E only.
 Both Seller A and Seller E.
 Neither Seller A nor Seller E.

- Algorithm Step 3: The quality testing organization tests and finds out the true qualities of all products in the final testing pool (if any).
 If a product's true quality is the same as its reported quality, the quality testing organization reveals to buyers the true quality of this product in Stage 3.
 If a product's true quality is NOT the same as its reported quality, the quality testing organization will NOT reveal the true quality is NOT the same as its reported quality, the quality of this product will remain hidden, just like any other product to selected into the final testing pool, This seller who is found out to report a false quality is required to pay a lying fee (= 10 + Price x Number of Products Sold).

SellersMayApply

Comprehension Question 3

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Your answer to the previous question is correct. Now let's continue to answer the following question.

In Stage 3, when buyers are deciding whether and from which seller to purchase a product, what information can each buyer see?

- Only the prices of all sellers' products.
 The prices and qualities of all sellers' products.
 The prices and qualities of all sellers' products.
 The prices of all sellers' products and the qualities of products that are revealed by the quality testing organization.

You can click the "Procedures" button on the top-right corner to check the summary of instructions to help you answer this question.

SellersMayApply Your answer to the previous question is correct. Now let's continue to answer the following question is correct. Comprehension Question 4 Let's continue looking at the previous example. Apply for quality testing? Reported quality Sold True quality 2.00 Apply Seller A Seller B 4.00 Apply Seller C Apply Seller D 8.00 Not Apply Seller E 10.00 Apply Apply Seller F 10.00 Suppose you estimated that your (Seller E's) product will be **purchased by 2 buyers** (in other words, you estimated that the number of products sold is 2). Please use the calculator on the right to calculate your (Seller E's) payoff in this round according to this estimation. Notes: 1. To use the calculator, please enter the number of buyers who will purchase your (Selier Es) product according to your estimation, and then select each seller's quality lesting application decision and his/her reported quality (if applicable) according to the summary table on the left, and then click the "Calculate" button. 2. This calculater will also be available to you fair in each cort cond of the experiment.

Please enter your (Seller E's) payoff according to this estimation, if you (Seller E) pay the lying fee:

Please enter your (Seller E's) payoff according to this estimation, if you (Seller E) pay the lying fee:

Please enter your (Seller E's) payoff according to this estimation, if you (Seller E) sh OTD pay the lying fee:

Seller ID	True Qu	ality	Price	Apply	Reported quality			
Seller A	2		2.00	C Apply	C NotApply	C 1	C 2	С
Seller B	1		4.00	C Apply	○ NotApply	C 1	C 2	c
Seller C	2		6.00	C Apply	C NotApply	C 1	€ 2	С
Seller D	3		8.00	C Apply	C NotApply	C 1	€ 2	С
Seller E (You)	2		10.00	C Apply	C NotApply	C 1	€ 2	0
Seller F	3		10.00	C Apply	○ NotApply	C 1	C 2	С
ECUs?	quality of your p	application depo						
Will you need of products s	d to pay a lying t sold) for reportin	lee (= 10 + Price g a false quality	x Number					
(Price	- Cost per product sold)	* Number of products sold	- Application deposit paid	Application deposit returned	- Lying fee pa	id	- Seller's	payol

Comprehension Question 2 **RandomTesting** Your answer to the previous question is correct. Now let's continue to answer the following question. Suppose in a certain round, at the end of Stage 1, six sellers make the following decisions on qualities and prices. Price Seller ID Cost per product sold 1.00 Seller B 2.00 Seller C 3.00 Seller D 4.00 Seller E 5.00 Seller F 5.00

Suppose that you were Seller B.

Suppose you estimated that your (Seller B's) product will be **purchased by 2 buyers**(in other words, you estimated that the number of products sold is 2). Please use the calculator on the right to calculate your (Seller B's) payoff in this round according to this estimation.

Note: This calculator will also be available to you later in each round of the experiment.

Please enter your (Seller B's) payoff according to this estimation:

	Seller payo	off calculator	
Nu	The quality of y The price of y mber of buyers who purchase y		C 3
	Calc	ulate	
Will the quality of your prod Stage 2?	duct be revealed to buyers in	33% chance that the quality of you	r product will be revealed to buyer
(Price	- Cost per product sold)	* Number of products sold	- Seller's payoff

Sellers May Apply

Comprehension Question 4

Your answer to the previous question is correct. Now let's continue to answer the following question

Lefs continue looking at the previous example. Suppose that Sellers A and E's products are tested by the quality testing organization. The true quality of Seller A's product is revealed to buyers, while the true quality of Seller E's product is not (because Seller E reported a false quality). The true qualities of all the other 4 sellers are also holden to buyers.

Suppose that your $\mbox{\it individual valuation of quality}$ in this round is 4.

Seller ID	Quality	Price	
Seller A	2	1.00	
Seller B		2.00	
Seller C		3.00	
Seller D		4.00	
Seller E		5.00	
Seller F		5.00	

Question 4: We know that the true quality of Seller A's product is 2. How much payoff can you earn, if you purchase a product from Seller A?

You can use the payoff calculator on the right to help you answer these questions (this calculator will also be available to you when you are making decisions in the experiment)

Buyer payoff calculator					
Quality		* Individual Quality valuation of quality		- Price	= Your earnings
C 1	€ 2	C 3	4	T	0.00
					Calculate

Submit

Baxic Info

Comprehension Question 5

Your answer to the previous question is correct. Now let's continue to answer the following question

Suppose that there are 3 sellers, Sellers G, H and L, who offer products with true qualities of 1, 2 and 3 respectively. Suppose that each of these 3 sellers charges a price equal to the corresponding cost per product sold

Lel's write the cost per product sold of a quality 1 product as c1, the cost per product sold of a quality 2 product as c2, and the cost per product sold of a quality 3 product as c3.

 $(Note: You \ are \ a \ seller, so \ you \ know \ that \ c1 = 1, \ c2 = 4 \ and \ c3 = 9. \ However, \ recall \ that \ buyers \ do \ not \ know \ the \ values \ of \ c1, \ c2 \ or \ c3.)$

The table below summarizes these 3 sellers' true qualities, costs per product sold and prices:

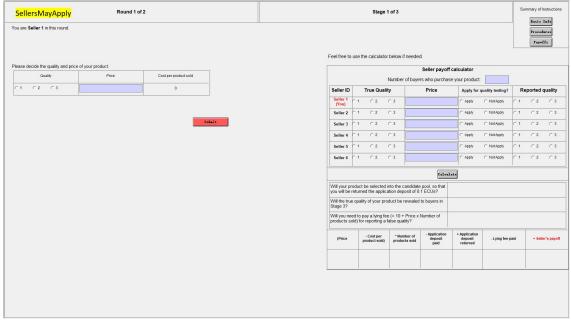
	True quality	Cost per product sold	Price
Seller G	1	c1	c1
Seller H	2	c2	c2
Seller L	3	c3	c3

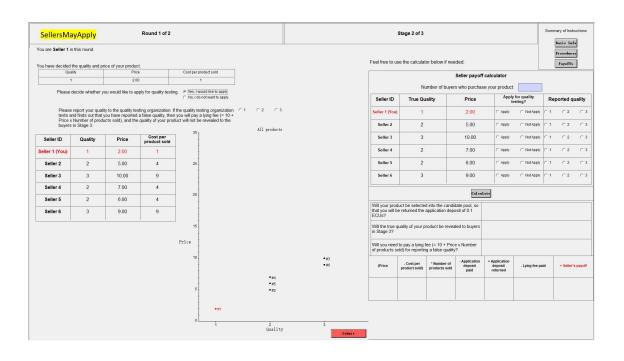
Question 5.1: For a buyer whose individual valuation of quality is 4, which seller's product gives this buyer the highest payoff, among fine and selective product of these 3 selective product.

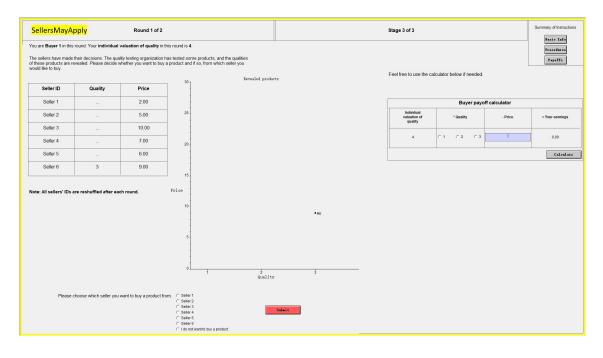
Question 5.2: For a buyer whose individual valuation of quality is 8, which seller's product gives this buyer the highest payoff, among Select Sproad these 3 seller's product? Select No. 2 Select No.

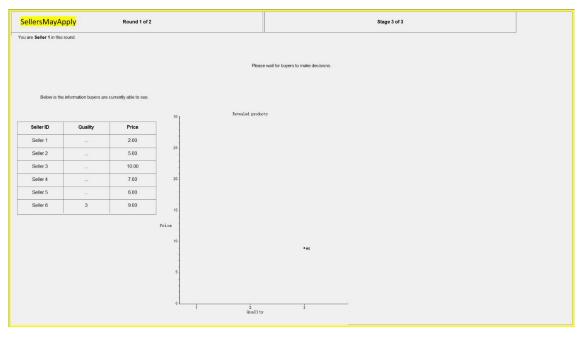
You can click the "Payoffs" button on the top-right corner to check the summary of instructions to help you answer this question.

The experiment will now start Now everyone has completed the instructions and comprehension questions, and we can start the experiment. Please click: "I am ready" if you are ready to start. SelliersMayApply Round 1 of 2 SelliersMayApply Round 1 of 2





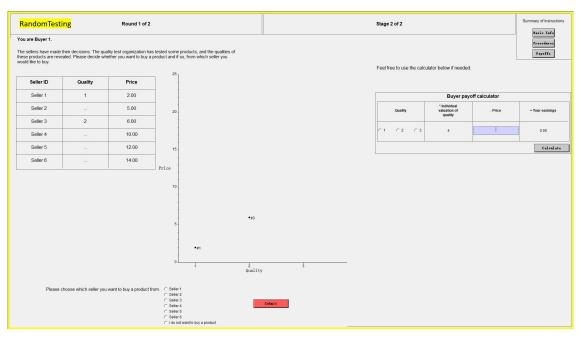


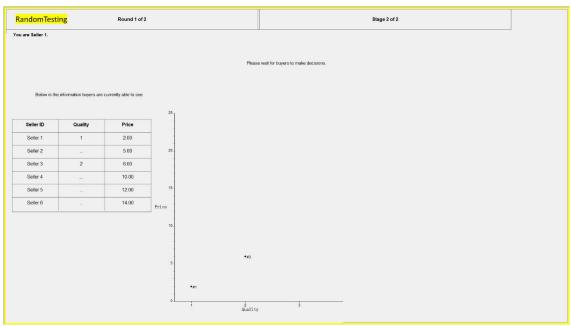


ellers May Apply	Round 1 of 2					Round c	ompleted	
u are Seller 1 in this round.								
			In Ro	und 1, you sold 0 pro	duct(s).			
			Your earn	ings in this round are	0.00 ECUs.			
			Your earn	ings in this round are	0.00 ECUs.			
			Your earn	ings in this round are	0.00 ECUs.			
	(Price	- Cost per product sold)	Your earn * Number of products sold	ings in this round are - Application deposit paid		. Lying fee paid	- Your earnings in this round	
		sold)	* Number of products sold	- Application deposit paid	* Application deposit returned		in this round	
	(Price 2.00	- Cost per product sold)	* Number of	- Application deposit	* Application decosit	- Lying fee paid	= Your earnings in this round	
		sold)	* Number of products sold	- Application deposit paid	* Application deposit returned		in this round	
		sold)	* Number of products sold	- Application deposit paid	* Application deposit returned		in this round	
		sold)	* Number of products sold	- Application deposit paid	* Application deposit returned		in this round	









RandomTesting	Round 1 of 2	Round completed	
You are Buyer 1.			
		You have completed Round 1. uchoose to purchase a product from Seller 1.	
		Please click "OK" to move on.	
			OK

RandomTesting	Round 1 of 2				Round completed	
u are Seller 1.			"			
			In Round 1, you s Your earnings in this			
				* Number of	- Your sarriage	
		(Price	- Cost per product sold)	products sold	- Your earnings in this round	
		2.00	1	3	3.00	

