

Learning Test

Learning Test

Please read the test instructions carefully.

This is a test to evaluate your capability of understanding a concept from a few examples. For each concept, some initial examples will be presented, including the input and output values.

Example:

('01', '10'), where '01' corresponds to the input value and '10' to the output value.

After the initial examples have been presented, you will have to provide the output (response) of further unlabeled examples in which only the input is included (test examples).

Example:

('100', ____), where '100' corresponds to the input value of the unlabeled example, and the missing output must be provided. One possible output for the last example could be '001'.

Outputs must consist of 0's and 1's strings with the exception of the "empty string", which will be considered as one possible solution. The "empty string" is represented as two single quotes (") which don't include 0's or 1's.

Later, you will be presented again with additional examples with the input and output values, which may update your idea about the concept or maintain your hypothesis, asking you again to complete the outputs of the test examples or to keep the outputs provided previously. If the new examples have updated your idea about the concept, you will probably need to modify your answers for the test examples.

The procedure explained will be repeated for a number of 9 concepts.

In the next page one guided example is provided to clarify the possible remaining questions about the test.

As an appreciation for your participation in the test, the participant with the highest score (greater number of correct answers) will be rewarded with a set of Apple Earpods with 3.5 mm jack. At the end of this page your email will be requested so we can notify you in case you become the winner. Including your email is not a requirement to participate in the test. However, it is a requirement to be considered for the reward.



There is no time limit for the test. Please, do it on your own, without any other human or machine assistance.

Thank you very much for your time!

Please, insert your email (Optional)

1. Information manager: Gonzalo Jaimovitch López
2. Information purpose: Contact the winner of the test. In no case your contact information will be linked to the results obtained in the test in any of the public documents in which they may be included. At the end of the test, you will be asked optionally to provide some demographic information that will be linked anonymously to your test results, but in no case to your contact information.
3. Rights: You can restrict, retrieve or delete your information anytime. Please, contact gonjailo@vrain.upv.es

Guided Example

Initial Examples

The initial examples are presented below (in this case one initial example) for the concept to be learned:
('01', '10')

What would be the output for ('100', ____) ?

One possible value for the last example could be '001', matching the possible concept "reverse". To

provide the answers you should not use the simple quotes (' '). In cases where your answer is the "empty string", you can simply leave the blank space. Remember that the "empty string" is considered as a possible answer, so you must only leave the blank space in case it is your final answer.

Examples of answers:

Possible answer 1 (0's and 1's string)

Possible answer 2 (0's string)

Possible answer 3 (1's string)

Possible answer 4 ("empty string")

Guided Example

Additional Examples I

In the second phase, the initial examples are presented alongside new additional examples:

('01', '10')

('0101', '1010')

What would be the output for ('100', ____) ?

After new examples have been presented, your idea about the concept can stay the same or be updated. The answer provided for each test example in the previous phase will be pasted in the next learning phase of a concept.

In case your idea about the concept stays the same, no changes in the box would be required. On the other hand, if the new information has updated your idea about the concept, you will probably need to update the box with the new solution.

For this example, it could be said that the "reverse" concept still fits the labelled examples, so the answer will be '001' again.

Guided Example

Additional Examples II

In the last learning phase of a concept the initial examples are presented alongside the additional examples of the previous phase and the last additional examples to learn the concept:

('01', '10')

('0101', '1010')

('010', '101')

What would be the output for ('100', ____)?

As it can be noticed, after the last labelled example is provided, the "reverse" concept cannot be longer applied to all the presented examples.

In this case, it would be necessary to modify the answer to the test example. One possible concept which would behave in the input-output manner of all the given examples could be "change 0's for 1's and 1's for 0's". The answer to the test example would be '011' following that concept.

This is the end of the guided example. From now on, the participant cannot come back to a previous page of the form. Please, review the given information in case you still have doubts about the test.

Once again, thank you very much for your time.

C1

Initial Examples

The initial examples for the concept C1 are:

('0', '0')

What would be the output for ('00000', ____)?

What would be the output for ('11100', ____)?

What would be the output for ('00111', ____)?

What would be the output for ('11010', ____)?

What would be the output for ('0010', ____)?

C1

Additional Examples I

The initial examples and the first additional examples for the concept C1 are:

('0', '0')

('111001', '1')

('110101', '1')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('00000', ____)?

What would be the output for ('11100', ____)?

What would be the output for ('00111', ____)?

What would be the output for ('11010', ____)?

What would be the output for ('0010', ____)?

C1

Additional Examples II

The initial examples and the additional examples for the concept C1 are:

('0', '0')

('111001', '1')

('110101', '1')

('100110', '1')

('111100', '1')

('01010', '0')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('00000', ____)?

What would be the output for ('11100', ____)?

What would be the output for ('00111', ____)?

What would be the output for ('11010', ____)?

What would be the output for ('0010', ____)?

Please, describe with natural language the concept C1

C2

Initial Examples

The initial examples for the concept C2 are:

('10', '0')

What would be the output for ('01011', ____)?

What would be the output for ('0101', ____)?

What would be the output for ('0010', ____)?

What would be the output for ('100', ____)?

What would be the output for ('1', ____)?

C2

Additional Examples I

The initial examples and the first additional examples for the concept C2 are:

('10', '0')

('01000', '1')

('01010', '1')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____)?

What would be the output for ('0101', ____)?

What would be the output for ('0010', ____)?

What would be the output for ('100', ____)?

What would be the output for ('1', ____)?

C2

Additional Examples II

The initial examples and the additional examples for the concept C2 are:

('10', '0')

('01000', '1')

('01010', '1')

('001', '0')

('00', '0')

('1011', '0')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____) ?

What would be the output for ('0101', ____) ?

What would be the output for ('0010', ____) ?

What would be the output for ('100', ____) ?

What would be the output for ('1', ____) ?

Please, describe with natural language the concept C2

C3

Initial Examples

The initial examples for the concept C3 are:

(" , '0')

('01' , ")

What would be the output for ('00010' , ____) ?

What would be the output for ('110' , ____)

What would be the output for ('00111' , ____)

What would be the output for ('11000' , ____)

What would be the output for ('101' , ____)

C3

Additional Examples I

The initial examples and the first additional examples for the concept C3 are:

(" , '0')

('01' , ")

('010100' , ")

('10101' , '1')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('00010', ____)

What would be the output for ('110', ____)

What would be the output for ('00111', ____) ?

What would be the output for ('11000', ____)

What would be the output for ('101', ____)

C3

Additional Examples II

The initial examples and the additional examples for the concept C3 are:

('', '0')

('01', '')

('010100', '')

('10101', '1')

('010', '')

('100', '1')

('011101', '')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('00010', ____)

What would be the output for ('110', ____)

What would be the output for ('00111', ____)

What would be the output for ('11000', ____)

What would be the output for ('101', ____)

Please, describe with natural language the concept C3

C4

Initial Examples

The initial examples for the concept C4 are:

('0', '011')

What would be the output for ('01011', ____) ?

What would be the output for ('0101', ____)

What would be the output for ('0010', ____)

What would be the output for ('100', ____)

What would be the output for ('1', ____)

C4

Additional Examples I

The initial examples and the first additional examples for the concept C4 are:

('0', '011')

('10', '1')

('001', '011')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____)

What would be the output for ('0101', ____)

What would be the output for ('0010', ____)

What would be the output for ('100', ____) ?

What would be the output for ('1', ____)

C4

Additional Examples II

The initial examples and the additional examples for the concept C4 are:

('0', '011')

('10', '1')

('001', '011')

('0001', '011')

('00', '011')

('000', '011')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____)

What would be the output for ('0101', ____)

What would be the output for ('0010', ____)

What would be the output for ('100', ____) ?

What would be the output for ('1', ____)

Please, describe with natural language the concept C4

C5

Initial Examples

The initial examples for the concept C5 are:

("', '1')

('1110', ")

What would be the output for ('01011', ____)

What would be the output for ('110', ____)

What would be the output for ('0010', ____)

What would be the output for ('101', ____)

What would be the output for ('1000', ____)

C5

Additional Examples I

The initial examples and the first additional examples for the concept C5 are:

(", '1')

('1110', ")

('10', '1')

('111001', ")

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____)

What would be the output for ('110', ____) ?

What would be the output for ('0010', ____)

What would be the output for ('101', ____)

What would be the output for ('1000', ____)

C5

Additional Examples II

The initial examples and the additional examples for the concept C5 are:

(", '1')

('1110', ")

('10', '1')

('111001', ")

('11', '1')

('0001', '0')

('11100', '')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____)

What would be the output for ('110', ____)

What would be the output for ('0010', ____)

What would be the output for ('101', ____)

What would be the output for ('1000', ____)

Please, describe with natural language the concept C5

C6

Initial Examples

The initial examples for the concept C6 are:

('0', '10')

('00', '')

What would be the output for ('01', ____)?

What would be the output for ('0000', ____)?

What would be the output for ('00011', ____)?

What would be the output for ('0011', ____)?

What would be the output for ('1000', ____)?

C6

Additional Examples I

The initial examples and the first additional examples for the concept C6 are:

('0', '10')

('00', '')

('11', '01')

('10', '')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01', ____)?

What would be the output for ('0000', ____)?

What would be the output for ('00011', ____)?

What would be the output for ('0011', ____)

What would be the output for ('1000', ____)

C6

Additional Examples II

The initial examples and the additional examples for the concept C6 are:

('0', '10')

('00', '')

('11', '01')

('10', '')

('', '1')

('101', '')

('000', '')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01', ____)

What would be the output for ('0000', ____)

What would be the output for ('00011', ____)

What would be the output for ('0011', ____)?

What would be the output for ('1000', ____)?

Please, describe with natural language the concept C6

C7

Initial Examples

The initial examples for the concept C7 are:

('', '0')

('0', '')

('00', '0')

What would be the output for ('01011', ____)

What would be the output for ('0000', ____)

What would be the output for ('00000', ____)

What would be the output for ('100', ____)

What would be the output for ('1000', ____)?

C7

Additional Examples I

The initial examples and the first additional examples for the concept C7 are:

('', '0')

('0', '')

('00', '0')

('0001', '0')

('01', '1')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____)

What would be the output for ('0000', ____)

What would be the output for ('00000', ____)

What would be the output for ('100', ____)

What would be the output for ('1000', ____)

C7

Additional Examples II

The initial examples and the additional examples for the concept C7 are:

(", '0')

('0', ")

('00', '0')

('0001', '0')

('01', '1')

('0101', '1')

('0010', '0')

('0110', '1')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('01011', ____)

What would be the output for ('0000', ____)

What would be the output for ('00000', ____)

What would be the output for ('100', ____)

What would be the output for ('1000', ____)

Please, describe with natural language the concept C7

C8

Initial Examples

The initial examples for the concept C8 are:

(", '01')

('01', ")

('1', ")

What would be the output for ('10101', ____)

What would be the output for ('11101', ____)

What would be the output for ('00000', ____)

What would be the output for ('0011', ____)

What would be the output for ('1111', ____)

C8

Additional Examples I

The initial examples and the first additional examples for the concept C8 are:

("', '01')

('01', "")

('1', "")

('11', "")

('011', "")

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('10101', ____)

What would be the output for ('11101', ____)

What would be the output for ('00000', ____)

What would be the output for ('0011', ____)

What would be the output for ('1111', ____)

C8

Additional Examples II

The initial examples and the additional examples for the concept C8 are:

("', '01')

('01', "")

('1', "")

('11', "")

('011', '')

('10', '')

('0100', '')

('0', '0')

*****Consider to rewrite the answer if your idea about the concept has changed**

What would be the output for ('10101', ____)

What would be the output for ('11101', ____)

What would be the output for ('00000', ____)

What would be the output for ('0011', ____) ?

What would be the output for ('1111', ____)

Please, describe with natural language the concept C8

You have successfully completed the test! Some optional demographic questions will be asked down below to enrich the analysis of the results. In no case the information provided will be linked to contact details.

Please, select "Send" to register your answers. Thank you so much for your time and have a nice day.

What is your age?

< 18 years old

18-24 years old

25-34 years old

35-44 years old

45-54 years old

> 54 years old

What is your level of education?

No studies

Primary Studies

Secondary Studies

Primary Education