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Description

In mathematics, there are a number of significant concepts. One of which is Pi. The Greek letter π is used to represent the ratio of a circle to its diameter. As well, Pi is used very heavily within trigonometry. This mathematical constant also has no end, it is an irrational number. The Digits of Pi Sequence Circuit will output the binary representation of the first 10 digits of Pi to the user using this circuit.

Inputs

The Digits of Pi Sequence Circuit will have 4 inputs. Ranging from a_0 to a_3 . There will be 10 sequences of inputs all representing the binary value of each decimal place.

Outputs

The Digits of Pi Sequence Circuit will have 4 outputs. Ranging from b_0 to b_3 . These outputs will be the binary representation of the digit of Pi that corresponds to the input decimal place.

Notes

This circuit will only be allowed to display the first 10 digits of Pi. Any inputs from 11-15 that are possible will result in errors. For these inputs, all lights will turn on to indicate there is an error. This is due to the fact that all LED lights on would be more noticeable in case there is an error. There are also no ambiguities related to this project.

Table

Input	Output
0000	0011
0001	0001
0010	0100
0011	0001
0100	0101
0101	1001
0110	0010
0111	0110
1000	0101

10001	0011
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PC/CP220 Project Phase I Checklist (3.01)

A. General

1. Professionally presented
Neat, etc. _____
2. Properly identified
(eg. name, id) _____
3. On time
at *beginning* of lab *with checklist* _____
4. Good grammar
(eg. complete sentences where required) _____
5. Correct spelling

B. Content

1. *Sufficient background*
(ie. problem circuit is to solve) _____
2. *Inputs are specified*
(eg. A_0, A_1, A_2, A_3 - binary) _____
3. *Outputs are specified*
(eg. L_1, S_1, L_2, S_2 , etc. - dashes/dots) _____
4. *Error conditions and responses*
to them are specified
(or stated that none exist) _____
5. *Ambiguous possibilities have been*
eliminated (ie. don't care conditions)
(or stated that none exist) _____