

MUX LOGIC DIAGRAMS



	7:58 / 7:58	1.0x			
--	-------------	------	--	--	--

Download transcript

.txt

Show Discussion

New Post

1. CHECK YOUR UNDERSTANDING (1/1 point)

Consider a 4-to-1 Mux that functions as follows:

Input A is connected to the output Out when $S_1S_0 = 00$

Input B is connected to the output Out when $S_1S_0 = 01$

Input C is connected to the output Out when $S_1S_0 = 10$

Input D is connected to the output Out when $S_1S_0 = 11$

Fill in the table below for Out: (**You only have ONE try for this problem**)

Help

A	B	C	D	S ₁	S ₀	Out
0	1	1	0	1	0	<input type="text" value="1"/>
1	0	0	1	0	1	<input type="text" value="0"/>
1	1	0	0	0	0	<input type="text" value="1"/>
0	0	1	1	1	1	<input type="text" value="1"/>

Answer: 1

Answer: 0

Answer: 1

Answer: 1

For the first row, $S_1S_0 = 10$, which causes the value of C to appear at the output. For the second with $S_1S_0 = 01$, B is connected to the output. With $S_1S_0 = 00$ in the third row, the value of A appears at the output. For the fourth row, D is connected to the output since $S_1S_0 = 11$.

Hide Answer

You have used 1 of 1 submissions

Show Discussion

New Post



EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by founding partners Harvard and MIT.

© 2015 edX Inc.

EdX, Open edX, and the edX and Open edX logos are registered trademarks or trademarks of edX Inc.

Terms of Service and Honor Code

Privacy Policy (Revised 10/22/2014)

POWERED BY
OPENedX

About edX

[About](#)
[News](#)
[Contact](#)
[FAQ](#)
[edX Blog](#)
[Donate to edX](#)
[Jobs at edX](#)

Follow Us

[Facebook](#)
[Twitter](#)
[LinkedIn](#)
[Google+](#)
[Tumblr](#)
[Meetup](#)
[Reddit](#)
[Youtube](#)