0 u v w x y z

1 x

2 xyz

3 x y

4 x y

5 x y

6

7 x y

8 u v w x y z

9

A u v w x y z

B xyz

C u v w x y z

D

3 digit hexadecimal result

| this | ? | ? |

0 $(u+v+w+x+y+z)'$

1 x'

2 $x'yz + xy'z + xyz'+ xyz$

3 3-bit value selects one of 8 input wires

4 $(x+y)'$

5 $uvwxyz$

6 can be used to store 1 bit of memory

7 $x+y$

8 3-bit value turns on one of 8 output wires

9 $x'y + xy'$

B $u+v+w+x+y+z$

A $uv'w'xy'z$

C $x'y'z + x'yz'+ xy'z'+ xyz$

D xy

3 digit hexadecimal result

| ? | this | ? |

0 6-input AND

1 NOR

2 NOT

3 XOR

4 MAJ

5 Decoder

6 OR

7 6-input general boolean function

8 Multiplexer

9 6-input OR

A AND

B ODD

C 6-input NOR

D flip-flop

3 digit hexadecimal result

| ? | ? | this |