

Knowledge

1. Give the address "101010101" in gray the names of the following:

- a. A 2-bit adder/subtractor based on the 2-bit full adder/subtractor
- b. A 2-bit adder/subtractor based on the 2-bit full adder
- c. A 2-bit adder based on the 2-bit full adder
- d. A 2-bit adder based on the 2-bit full adder/subtractor
- e. A 2-bit adder based on the 2-bit full adder
- f. A 2-bit adder based on the 2-bit full adder/subtractor
- g. A 2-bit adder based on the 2-bit full adder
- h. A 2-bit adder based on the 2-bit full adder/subtractor
- i. A 2-bit adder based on the 2-bit full adder

2. How do you find the address by changing the address from binary to decimal?

- a. Convert the address from binary to decimal
- b. The address is the same as the address in binary
- c. The address is the same as the address in binary
- d. The address is the same as the address in binary
- e. The address is the same as the address in binary
- f. The address is the same as the address in binary
- g. The address is the same as the address in binary
- h. The address is the same as the address in binary
- i. The address is the same as the address in binary

3. Write the address names using following algorithm:

Address 1	Address 2	Address 3
Address 4	Address 5	Address 6
Address 7	Address 8	Address 9
Address 10	Address 11	Address 12
Address 13	Address 14	Address 15

4. Complete the following table:

Address Name	Address	Value	Value
Address 1	Address 2	Address 3	Address 4
Address 5	Address 6	Address 7	Address 8
Address 9	Address 10	Address 11	Address 12
Address 13	Address 14	Address 15	Address 16
Address 17	Address 18	Address 19	Address 20
Address 21	Address 22	Address 23	Address 24
Address 25	Address 26	Address 27	Address 28
Address 29	Address 30	Address 31	Address 32

5. Write the address of some operations using a correct name:

- Add --- Subtract --- Multiply --- Divide
- Shift --- Rotate --- Compare --- Test
- Load --- Store --- Jump --- Branch
- Call --- Return --- Halt --- Interrupt