

Knowledge

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

- a. A one-bit full adder part of the system's adder circuit
- b. The carry propagation function of the adder circuit
- c. The carry look-ahead function of the adder circuit
- d. The carry select function of the adder circuit
- e. The carry ripple function of the adder circuit
- f. The carry chain function of the adder circuit
- g. The carry chain function of the adder circuit
- h. The carry chain function of the adder circuit
- i. The carry chain function of the adder circuit

2. How do you determine the carry propagation function of the adder circuit?

- a. The carry propagation function of the adder circuit is the carry propagation function of the adder circuit.
- b. The carry propagation function of the adder circuit is the carry propagation function of the adder circuit.
- c. The carry propagation function of the adder circuit is the carry propagation function of the adder circuit.
- d. The carry propagation function of the adder circuit is the carry propagation function of the adder circuit.
- e. The carry propagation function of the adder circuit is the carry propagation function of the adder circuit.

3. Write the abstract syntax of the following algorithm:

```

Algorithm 1:
1. Input: a, b, c
2. Output: a + b + c
3. Process:
   a. a ← a + b
   b. a ← a + c
   c. a ← a
4. End
    
```

4. Complete the following table:

Algorithm	Algorithm	Code	Result
Algorithm 1	Algorithm 2	Algorithm 3	Algorithm 4
Algorithm 5	Algorithm 6	Algorithm 7	Algorithm 8
Algorithm 9	Algorithm 10	Algorithm 11	Algorithm 12
Algorithm 13	Algorithm 14	Algorithm 15	Algorithm 16
Algorithm 17	Algorithm 18	Algorithm 19	Algorithm 20
Algorithm 21	Algorithm 22	Algorithm 23	Algorithm 24
Algorithm 25	Algorithm 26	Algorithm 27	Algorithm 28
Algorithm 29	Algorithm 30	Algorithm 31	Algorithm 32
Algorithm 33	Algorithm 34	Algorithm 35	Algorithm 36
Algorithm 37	Algorithm 38	Algorithm 39	Algorithm 40
Algorithm 41	Algorithm 42	Algorithm 43	Algorithm 44
Algorithm 45	Algorithm 46	Algorithm 47	Algorithm 48
Algorithm 49	Algorithm 50	Algorithm 51	Algorithm 52
Algorithm 53	Algorithm 54	Algorithm 55	Algorithm 56
Algorithm 57	Algorithm 58	Algorithm 59	Algorithm 60
Algorithm 61	Algorithm 62	Algorithm 63	Algorithm 64
Algorithm 65	Algorithm 66	Algorithm 67	Algorithm 68
Algorithm 69	Algorithm 70	Algorithm 71	Algorithm 72
Algorithm 73	Algorithm 74	Algorithm 75	Algorithm 76
Algorithm 77	Algorithm 78	Algorithm 79	Algorithm 80
Algorithm 81	Algorithm 82	Algorithm 83	Algorithm 84
Algorithm 85	Algorithm 86	Algorithm 87	Algorithm 88
Algorithm 89	Algorithm 90	Algorithm 91	Algorithm 92
Algorithm 93	Algorithm 94	Algorithm 95	Algorithm 96
Algorithm 97	Algorithm 98	Algorithm 99	Algorithm 100

5. Write the algorithm of the given code using a correct code:

```

Code 1:
1. Input: a, b, c
2. Output: a + b + c
3. Process:
   a. a ← a + b
   b. a ← a + c
   c. a ← a
4. End
    
```