

09 / 01 / 24

Exercise

① 4 & 7

$2^3 2^2 2^1 2^0$
0100

0100

0111

0100 → 4

0111

16 8 4 2 1

10000

② 1617

10000

00111

10111 → 23

16 4 2 1

③ 2 & (~13)

$2^3 2^2 2^1 2^0$
8

~ 1101

0010

0010

0010

0010 → 2

④ 5^8 (xor)

32 16 8 4 2 1

0101

0101

1000

1101 → 13

01011

09 / 01 / 24

⑤ $7 > 2$

3 2 1 0

0 0 0 0 0 1 1 1

0 0 0 0 0 0 0 1 1 1 - 1

⑥ $84 \neq > 4$

0 1 0 1 0 1 0 0

0 0 0 0 0 1 0 1 → 5

⑦ $15 < 5^*$

0 0 0 0 1 1 1 1

0 0 0 0 1 1 1 0 0 0 0 0 → 480

$2^5 2^4 2^3 2^2 2^1 2^0$

⑧ $4 \& (2 < 3)^*$

0 0 0 0 0 0 1 0

0 0 0 1 0 0 0 0 → 16

0 0 0 0 0 1 0 0

0 0 0 0 0 0 0 0 → 0

09 / 01 / 24

⑨ $21(19 > 71)^*$

0001, 0011

0000 1001

8 8 11

0000 1001

0000 0010

0000 1011 → 11 ↓

⑩ $0xFF \& (0x13 < 0x2)^*$

0001 0011

0100 1100

1111 1111

0100 1100 → 0x4C ↓

4

↑
12

09 / 01 / 24

Binario → Hexa

0-9

A-F

C

① 1011 1100

11

12

0x BC

② 1000 0001 1100

8

1

12

0x 81C

③ 1000 0011 0011 1111 1010

8

3

3

15

10

0x 833FA

④ 1111 1010 0001

15

10

1

0x FA1

⑤ 1111 1111 1111 1111 1101 1110

15

15

15

15

13

14

0x FFFF DE

64

A

10

Hexa → Binario

B

11

1. 84

C

12

0101 0100

D

13

2. 0xFC15

E

14

1111 1100 0001 0101

F

15

3. 0x5487DA

0101 0100 1000 0111 1101 1010

4. 298

0001 0010 1010

5. 0xA15CBA

1010 0001 0101 1100 1011 0100