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4-
« »
(,)

« »
(,)

“ATMEGA 328”

[1].

True Crypt BitLocker

[2].

- 1.
- 2.
- 3.
- 4.
- 5.

SD AVR 328,

Arduino Nano,
, LCD

RTC

. SD microSD
4 8

I2S

Arduino

4

1)

, "1"-

"0" -

2)

1 XOR C2

D1.

3)

"0" - 1 , 2
"1" - 1 , 2

D2;
D2;

4)

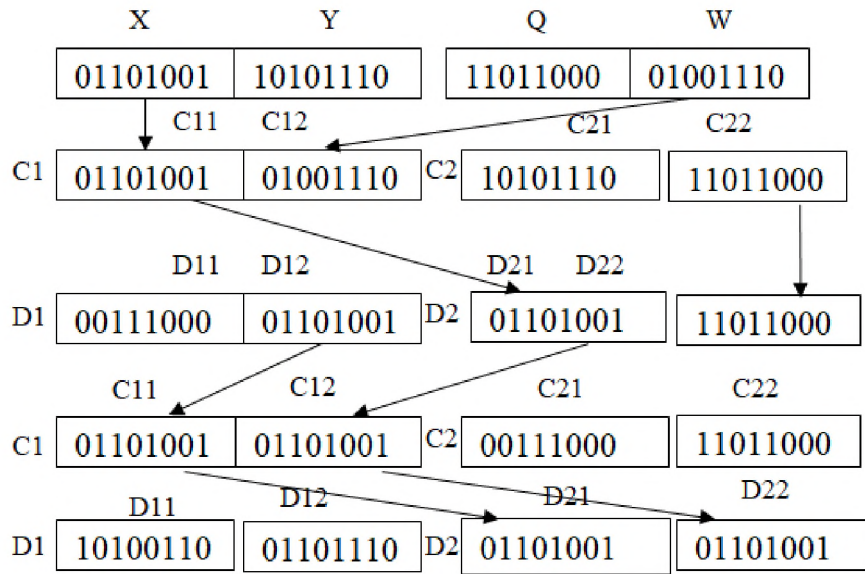
1-3,

: 011100

(11011000),

(01101001),
(01001110).

(10101110),



1.

:

1)

“0”, D_{21} D_{12} , C_{22} D_{21} ;
 “1”, C_{21} D_{11} , C_{22} D_{22} ;

2)

“0” $D_n = (C_n \text{ XOR } D_{21}); D_{22} = (C_{12} \text{ XOR } D_{12})$
 “1” $D_{12} = (C_{12} \text{ XOR } C_{22}); D_{21} = (C_{11} \text{ XOR } C_{21})$.

3)

:

:

: 011100

:

(10100110),
 (01101001).

(01101110),

(01101001),

	12	21	22	
	10100110	01101110	01101001	01101001
	D11	D12	D21	D22
D1	00101000	01101001	01101001	1101100
	^			
	01101001	00101000	01101001	11011000
	^ * '		i	
	01101001	01001110	10101110	11011000
	i Ai^			
Cl	01101001	10101110	11011000	01001110
	C2			

2.

,

[].

[4].

AVR 8- 32- RISC

, RISC-

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