		-	20	
	2.	113	X	
	SIN	S		
(X)	//	1		

Lab-3

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Fibonacci Detector

The following numbers are fibrance in hys.: $0 \rightarrow 00000$; $01 \rightarrow 00001$; $1 \rightarrow 00001$; $2 \rightarrow 00010$; $3 \rightarrow 00011$; $5 \rightarrow 000101$; $8 \rightarrow 001000$; $13 \rightarrow 01100$; $21 \rightarrow 10101$;

-										
	X4X3X2									
	XLXO	00	00	007	077	020	170	111	101	100
-	00		I	0	0	(i)	0	0	0	0
	0.7		1	1	1)	0	0	0	1	0
	17		T	0	0	0	0	0	0	0
	10		1	0	0	0	0	0	0	0
	N.	1	/		-					

input -> X4X3 X2XLX0

> X4. X3. X2 + X4. X2. X1. X0 + X4. X3. X2. X1. X0 + X4. X3. X2 - X1. X0

= X4X2 (X3+ X3: X-X0) + X1 (X4. X2. X0 + X4. X2. X0. X1)

72 ×1. ×0 (x4 + x4 × x3)

 $F(x_4,x_3,x_2,x_1,x_0) = \overline{x_4},\overline{x_2},\overline{(x_3+x_3,\overline{x_1},\overline{x_0})} + x_2,\overline{x_1},x_0(\overline{x_4}+x_4,\overline{x_2})$

= \(\frac{1}{2} \cdot \frac{1

+ x2x1x3.x4 + x4 x3.x.x1.x0

Allo 25/8/23