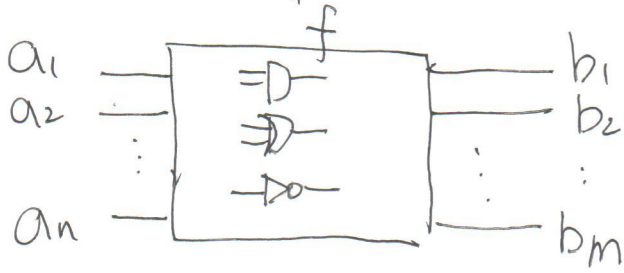


4A 11A (A) Review & Counting

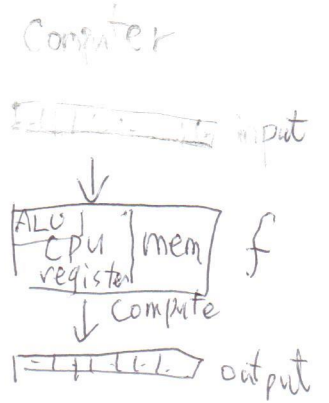
Review ~~Congruence of modulus~~ m

Boolean Circuit



Let $B = \{0, 1\}$
or $\{\pi, \bar{\pi}\}$

1-bit flip flop memory

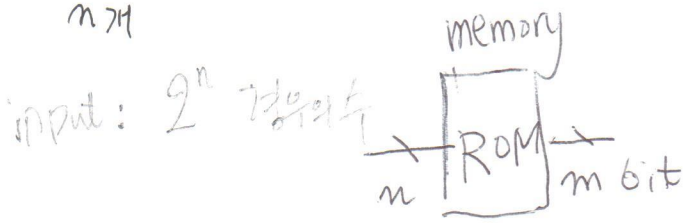


$$f(i) = 0$$

$$f: B^n \rightarrow B^m \quad (n, m \geq 1)$$

$B \times B \times \dots \times B$
n 개

나중이



$2^n \times m$ bit/s

Combinational circuit $\equiv 2^n \times m$ bit memory
(n-input, m-bit)

Tower of Hanoi - 아주 재미있고 중요하다

8장 recurrence relation의 특징이어서 재미있을 것 같아 보자

(정답하자)

$$P_n = P_{n-1} + 1 + P_{n-1} = 2P_{n-1} + 1$$

서양 수학(논리)의 특징 비밀

시작 $\sqrt{2}$ 피타고라스... $\frac{1+\sqrt{5}}{2} = 3^{.23 \times \dots}$

정답이라, 상대론의 기법이라
+, - X, /

3.15 상대론 3.145 $\leq (3.15) < 3.155$
 Δ delta

$\approx 1.618 \times \dots$
상대론
 ϵ (epsilon), ?

String of length n over Σ

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$$\circ : \{1, 2, \dots, n\} \rightarrow \Sigma = \{a, b, \dots, z\}$$

(f)

$$\circ(1) = 'b' \in \Sigma$$

$$\circ(2) = 'o' \in \Sigma$$

$$\circ(3) = 'y' \in \Sigma$$

$$\circ(1, 2, 3) = \text{"boy"}$$

$$\circ_1(3) = \text{"boy"}$$

$$\circ_2(5) = \text{"school"}$$

$$|\circ(3)| = 26^3$$

$$|\circ(5)| = 26^5$$

$$\circ_2(5) \circ \circ_1(3) = \text{"schoolboy"}$$

$$f: A \rightarrow B$$

$$|f| = |B|^{|A|}$$

$$P(A)$$

$$|P(A)| = 2^{|A|}$$

$$\rightarrow \{0, 1\}^{|A|} = \{0, 1\}^m$$



$|A|$ bit binary string