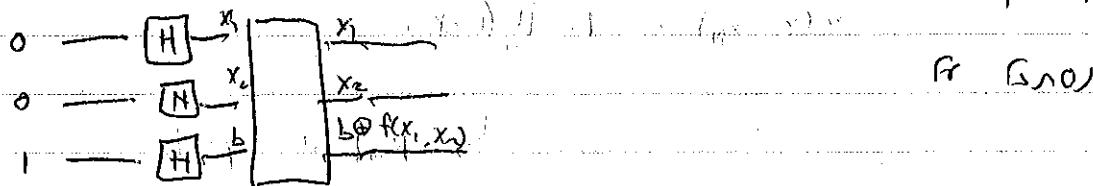


3 Feb

rank 1 step zero. (P(B|B) = 1)



ונזק מילוי מושג f ב-4 מילים \Rightarrow $f(x_1, x_2) = b \oplus f(x_1, x_2)$
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$$\pi(x_1, x_N) = x_{\pi(1)}, x_{\pi(N)}, \quad P = \sum_{\pi \in S_N} p(\pi(x_1, x_N)) \quad \text{1c. 2}$$

מילוי מושג π ב-4 מילים \Rightarrow $\pi(1), \pi(N)$

Q_0, \dots, Q_N

$$Q_N(x_1, x_N) = \sum_{x_1, \dots, x_N} x_1, \dots, x_N$$

$$P(x_1, x_N) = \sum_{\substack{\text{loop} \\ \pi = (x_1, \dots, x_N)}} c_\pi \cdot Q_0 \cdots Q_N$$

מילוי מושג P ב-4 מילים \Rightarrow $\deg(P) \leq 4$

מילוי מושג Q_0 ב-4 מילים \Rightarrow $\deg(Q_0) \leq 4$

$$Q_0(x_1, x_N) = \left(\frac{\sum x_i}{4} \right)$$

$$P(x_1, x_N) = q(\sum x_i) \quad \text{מילוי מושג } P \text{ ב-4 מילים} \Rightarrow \deg(P) \leq 4$$

$$\deg(q) \leq \deg(P) \leq 4$$

1. \exists f such that $f(x) = \sum_{i=1}^N a_i x_i$

$$f(x_1, x_2, \dots, x_N) = 1 - \prod_{i=1}^N (1-x_i)$$

$$\deg(f) = N \quad \text{per}$$

$$g(\sum x_i) = f(x_1, x_2, \dots, x_N) \quad g \in C^\infty$$

$$(1-g) \in \text{Span}(x_1, x_2, \dots, x_N) \quad \text{and } \deg(1-g) \geq \frac{N}{2} \quad \text{per}$$

$$\deg(g) \geq \deg(1-g) \geq \frac{N}{2} \quad \text{per}$$

1. \exists $T \in \text{QR}$ such that $T \circ g = f$ (since f is a polynomial)

2. T is a linear map from C^∞ to C^∞

$$\frac{\partial f}{\partial x_i}(0, 0, \dots, 0) = 1 \Rightarrow W(a_1, \dots, a_N) = 1$$

$$a_1 = \dots = a_N = 0 \Rightarrow W(a_1, \dots, a_N) = 1$$

$$a_1 > 0 \quad \text{and} \quad a_2 = \dots = a_N = 0 \quad \text{per}$$

$$\forall i > 0 \quad Z(i) = 0$$

$$Z(0) \neq 0$$

$$2 \geq \deg(W) \geq \deg(Z) \geq N \quad \text{per}$$

$$T \geq \frac{N}{2} - 1 \quad \text{per}$$

WLOG $n=1$ case \Rightarrow there \Rightarrow is a zero in A

so $N \in R$ has one

so $\exists k \in \mathbb{N}, \exists m \in \mathbb{Z}^3 \quad N^k = M \quad \forall i \in \mathbb{Z}$

$(N^k - 1) \mid M$

$\exists q \in \mathbb{Z}$

$g([N] \rightarrow [M])$

On \exists $k \in \mathbb{N}$ $\exists m \in \mathbb{Z}^3 \quad g(k) \geq 1$

1 is same as M plus 0's & 1's

$g([B] \rightarrow [C])$ \leq $g([A] \rightarrow [D])$

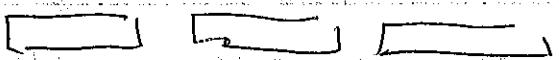
$\vdash \text{Pao OlyN}$

$\vdash \text{Pao Simon}$

$\vdash \text{Pao 21' Pao 21' Pao 21'}$

$Ox = Ox_{02}$

Birthday paradox, $\alpha(\sqrt{n})$



$\vdash \text{Pao A, Pao B} \dots 5$

$\vdash \text{Pao 2 points}$

(when u find prob of 1st pair = 1/10, prob of 2nd pair = 1/9)

... 1st refers to 1st pair ... 2nd refers to 2nd pair

$\vdash \text{Pao 2 points}$ 6

$A = \text{Med}(X_1, X_n)$ 1/10

$B = \text{Med}(Y_1, Y_n)$ 1/10

$A \subset B \quad \vdash \text{Pao 1 point}$

$M = \text{Med}(X_1, X_n, Y_1, Y_n)$ 1/10

$A \leq M \leq B$

11

. NO 6 11

③

100% of the students in the class have completed the assignment. Project Alpha

When we can say, or at the present time

Wirkung der Prostaglandine auf die Blutzufuhr der Uteruswand

the values of μ and ρ , respectively, at the time of the first

Med on b/pes

biochem esp Med o la pres

n,n 1317 Cipolla 1990 1h - 2e fsp

[m] 3pt 1pt 11/10/2011

~~major problems~~ were often physical → part

1st D₁ 1521 03pm met ? 2011 11/22

$O(\lg n \cdot \lg m)$

83 P.M. Med. to the premises ~~for~~

med_B n. / Kp. m! med_A n!

የኢትዮጵያ ከዚህ ዓመት በፊት ስራውን የሚያስፈልግ ይችላል

med. 1, 2, 3, 4, 5, 6

prefix \rightarrow gen 1. In Red \rightarrow the Gen will be 'is not - past'

Let $k+1 \geq n$. Then $\sum_{i=1}^k a_i \leq n-1$.

19. 11. 1986 N. 1001 22. 1986 19. 11.

$O(\lg n)$: $\int_{\frac{1}{n}}^1 \frac{1}{x} dx = \ln x \Big|_{\frac{1}{n}}^1 = \ln 1 - \ln \frac{1}{n} = \ln n$