Detailed analysis of for is constant and from is balanced cases. fcx) is constant: $\leq \leq \frac{(-1)^{\times 2+c_{2}+c_{3}}}{2^{n}}$ $(\frac{10)^{-11}}{\sqrt{2}}$, Sxclusive or of dotproducts where each tesm is zero f(x) = c. when Z = 0 X.Z = 21,0 @ 22,0 @ -.. @ 24.0 = 0 0 0 0 - 10 C : C-DXZ+ fcx) For every value other than Z=0, x==0 That means, the Coefficient donot vanish but coefficient exist be other functions which are not balanced. But the promise is fox) is either const-or Dalanced. Half of the times f(x) = 0, Half of the times f(x) = 1 $(-1)^{x \ge + f(x)} = (-1)^{x \ge 1}$. $(-1)^{x \ge 1}$ fox) is balanced; Let $N = 2 - 2^N = 4 - 2$) For two values of X, f(X) = 0For two values of X, f(X) = 1ラミ (上り)+(-り+(-り)) (1) \Z \(\(\times \) \\ \(\time = \[[+ 1 - 1 - i] (-1)^2 = 0 > (1) is zero for fox) is bolanced case

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