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NPTEL » Randomized Methods in Complexity

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Course outline Assignment 12 How does an NPTEL online The due date for submitting this assignment has passed. course work? Due on 2021-04-14, 23:59 IST. As per our records you have not submitted this assignment. Week 0 Let P(x,y) be d-degree a bivariate polynomial. How many evaluations are needed at y=a i.e. P(x,a), to reconstruct P(x,y)? 1 point Week 1 d Week 2 d^2 Week 3 O d+1 Arbitrary set of points does not work Week 4 No, the answer is incorrect. Score: 0 Week 5 Accepted Answers: d+1 Week 6 2) Given real numbers a_1, \ldots, a_n such that $a_1 + \ldots + a_n = 1$, what is the minimum value that can be attained by $a_1^2 + \ldots + a_n^2$? 1 point Week 7 1/n Week 8 01 Week 9 $1/n^2$ Minima does not exist. Week 10 No, the answer is incorrect. Score: 0 Week 11 Accepted Answers: 1/n Week 12 3) Let f(x,y) be a d-degree bivariate polynomial over a field $\mathbb F$ of characteristic 0. Let $S:=\{f(a,a^{d+1})|a\in\mathbb F\}$, be an infinite set. How many Lecture 24: Local decoding of 1 point WH, Reed-Muller and values from S suffices to reconstruct f(x,y)? Concatenated codes S is not an interpolating set i.e. it is not possible to reconstruct f from any such evaluations Week 25: Introduction to List \bigcirc d Decoding Lecture 26: Local List d^2 decoding of WH, RM Quiz: Assignment 12 $(d+1)^2$ Assignment 12 Solution No, the answer is incorrect. Score: 0 Feedback for Week 12 Accepted Answers: $(d+1)^2$