

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

- Lecture 20: Partial derandomization from worst-case hardness of permanent

- Lecture 21: Error-correcting codes

- Quiz : Assignment 10**

- Assignment 10 Solution

- Feedback for Week 10

Week 11

Week 12

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Assignment 10

The due date for submitting this assignment has passed.

Due on 2021-03-31, 23:59 IST.

As per our records you have not submitted this assignment.

1) If EXP is in P/poly, then which of the following is known to be true?

1 point

- EXP= MA
- NP=RP
- NP=BPP
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
EXP= MA

2) We know that permanent is #P-complete. Does taking "mod" make it easier? Here are two statements:

1 point

- A. modular permanent is #P-hard for large enough primes (large wrt dimension of the matrix)
- B. modular permanent is easy mod 2

- B is true but A is false
- both A and B are false
- both A and B are true
- A is true and B is partially true, for special matrices

No, the answer is incorrect.
Score: 0

Accepted Answers:
both A and B are true

3) If S and S' are two random n-bit strings, then what is the expected hamming distance between them?

1 point

- n
- n/2
- n/4
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
n/2