

Unit 2 - Week 0:Prerequisite

Course outline

How does an NPTEL online course work?

Week 0:Prerequisite

- ☒ Quiz : Assignment 0
- ☐ Solution: Assignment 0

Week 1: Introduction to Randomized Algorithms

Week 2: Probability Review

Week3: Moments and Deviations

Week4: Probabilistic Method

Week 5: Markov Chains

Week 6 : Markov Chains-II

Week 7: Number Theoretic Algorithms

Week 8: Graph Theoretic Algorithms

Week 9 : Approximate Counting

Week 10 : Randomization and Data Structures

Week 11 : Computational Complexity

Week 12 : Summary

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Assignment 0

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

Due on 2020-01-26, 23:59 IST.

1) State whether the following statement is True or False. Every rational number is a real number.

- ☐ TRUE
- ☐ FALSE

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
TRUE

1 point

2) State whether the following statement is True or False. The number of composite numbers is finite.

- ☐ TRUE
- ☐ FALSE

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
FALSE

1 point

3) What is the probability of getting a 4 when a fair dice is rolled?

- ☐ 1/4
- ☐ 2/5
- ☐ 1/3
- ☐ 1/6

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
1/6

1 point

4) Which of the following points do not lie on the line  $x - y = 0$ ?

- ☐  $(x, y) = (2, 2)$
- ☐  $(x, y) = (0, 0)$
- ☐  $(x, y) = (3, 5)$
- ☐  $(x, y) = (4, 4)$

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
 $(x, y) = (3, 5)$

1 point

5) Which of the following are prime numbers?

- ☐ 19
- ☐ 49
- ☐ 61
- ☐ 91

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
19  
61

1 point

6) Which of the following points lie on the line  $x + 2y = 3$ ?

- ☐  $(x, y) = (3, 0)$
- ☐  $(x, y) = (1, 1)$
- ☐  $(x, y) = (1, 2)$
- ☐  $(x, y) = (2, 1/2)$

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
 $(x, y) = (3, 0)$   
 $(x, y) = (1, 1)$   
 $(x, y) = (2, 1/2)$

1 point

7) The largest prime number less than 100 is

- ☐ 97
- ☐ 99

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
97

1 point

8) How many real roots does the equation  $x^3 + 3x^2 + 2x = 0$  have?

- ☐ 2
- ☐ 3
- ☐ 1

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
3

1 point