Quiz 10

Due Oct 31 at 11:59pm **Points** 6 **Questions** 6
Available Oct 27 at 11:59pm - Nov 14 at 11:59pm **Time Limit** 30 Minutes

Instructions

Quiz 10

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	30 minutes	4 out of 6

ⓘ Correct answers will be available on Nov 8 at 12am.

Score for this quiz: **4** out of 6
Submitted Oct 31 at 7:32pm
This attempt took 30 minutes.

Question 1 — 1 / 1 pts

S → 0A | 1B | λ
A → S0
B → S1

This grammar can be classified as

- [x] Linear
- [ ] Left Linear
- [x] Context free
- [ ] Regular

- [ ] Right Linear

Question 2

1 / 1 pts

Given the grammar:

```
S → aS
S → cA
A → bA
A → dB
B → d
```

Which type of grammar is it.

- [x] Regular
- [x] Right Linear
- [ ] Left Linear
- [x] Linear
- [x] Context free

Incorrect

Question 3

0 / 1 pts

Which of the following statement is correct?
A) All Regular grammar are context free but not vice versa
B) All context free grammar are regular grammar but not vice versa
C) Regular grammar and context free grammar are the same entity
D) None of the mentioned

- ( ) C

D

B

A

Incorrect

Question 4

0 / 1 pts

Which of the following grammars describes the same language as 0^n1^m where m ≤ n ?

A. S → 0S1 | λ

B. S → 0S1 | S1 | λ

C. S → 0S1 | 0S | λ

D. S → SS | 0 | 1 |λ

C

B

D

A

Question 5

1 / 1 pts

Consider the following statements about the context free grammar G = {S-->SS , S-->ab , S-->ba , S-->λ

Which combination below expresses all the true statements about ?

I. G is ambiguous

II. G produces all strings with equal number of a's and b's

III. G can be accepted by a deterministic PDA.

A I only

B I and III only

C II and III only

D I, II and III

- A
- C
- D
- B

Question 6

1 / 1 pts

R->R|T T->λ is an ambiguous grammar

- True
- False

Quiz Score: **4** out of 6