<u>Dashboard</u> / My courses / MA-224-G 24H / Tests / Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars)

Started on Wednesday, 11 September 2024, 12:16 PM

State Finished

Completed on Wednesday, 11 September 2024, 12:46 PM

Time taken 29 mins 50 secs

Marks 1.20/3.00

Grade 1.20 out of 3.00 (40.02%)

Information

Information

This page contains all the problems for this test. The very last problem asks you to contact the person in charge of the exam and tell him or her the 4-digit key given in the problem text. In return you will be given a 5-digit signing code which you must give as the answer to the problem.

This problem does not count towards the final score, but tests missing this code will not count towards the final grade.

The following rules apply:

- Total time allowed: 30 minutes. The test will automatically close if time runs out.
- UiA's usual rules in regards to cheating on exams apply.

Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars): Attempt review
$\left\{ 0,\left\{ 0,9\right\} ,\left\{ 9\right\} ,\left\{ \left\{ 0\right\} \right\} ,\left\{ \left\{ 9\right\} \right\} \right\} .$

Question 2	
Partially correct	
Mark 0.50 out of 1.00	

Complete the following division computations.

dividend	/	divisor	=	quotient	(remainder)
1880	/	141	=	Your last answer was interpreted as follows:	(Your last answer was interpreted as follows:)
-3303	/	187	=	Your last answer was interpreted as follows: -17	(Your last answer was interpreted as follows: -124)
Your last answer was interpreted as follows:	/	177	=	15	(107)
3243	/		=	24	(27)

Question **3**Partially correct
Mark 0.20 out of 1.00

Consider the following EBNF grammar.

 $Cow \rightarrow tie \{ Jay \} + \{ hat | Cow \}$

 $Yak \rightarrow Jay \ saw \ Cow$

 $Jay \rightarrow hut [Cow pen] | bag Yak$

Translate it into a grammar 4-tuple.

You must fill in something in each field to get a marking.

```
Terminals = {"Yak", "Jay"}

Nonterminals = {"saw", "tie", "hat", "hut", "bag", "pen"}

Start symbol = "Cow" = ["Cow", "Jay", "hat", "hat"], ["Cow", "Jay", "Cow", "Cow"], ["Jay", "hut", "Cow pen"], ["Jay", "hut", "bag", "Yak"]}
```

Your last answer was interpreted as follows:

{Yak, Jay}

Your last answer was interpreted as follows:

{saw, tie, hat, hut, bag, pen}

Your last answer was interpreted as follows:

Cow

Your last answer was interpreted as follows:

{[Cow, Jay, hat, hat], [Cow, Jay, Cow, Cow], [Jay, hut, Cow pen], [Jay, hut, bag, Yak]}

Question 4	
Correct	
Mark 0.00 out of 0.00	

Signing code

Before closing the test you must answer this problem with a signing code given to you by the person in charge of the test.

Tests missing this signing code will be ignored and will not count towards the final score.

Key: 131

Signing code: 31940

Your last answer was interpreted as follows:

31940

■ Technical test

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