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

Started on Wednesday, 11 September 2024, 2:32 PM

State Finished

Completed on Wednesday, 11 September 2024, 2:56 PM

Time taken 24 mins 39 secs

Marks 1.90/3.00

Grade 1.90 out of 3.00 (**63.35**%)

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.

Question 1

Partially correct

Mark 0.50 out of 1.00

Fill in the following truth table.

р	q	r	r∧(r⇒(q∨p))
False	False	False	True
False	False	True	True
False	True	False	True
False	True	True	True
True	False	False	False
True	False	True	True
True	True	False	True
True	True	True	True

		(,
Question	2	
Correct		
Mark 1.00	out of 1.00	
Comp	oute the least common mu	ıltiple (lcm) and the greatest common divisor (gcd) of the numbers 144 and 648 .
lcm:	1296	
	Your last answer was in	terpreted as follows:
	Your last answer was in	terpreted as follows:
	Your last answer was in	terpreted as follows: 1296

gcd : 72

Your last answer was interpreted as follows:

72

```
Question 3
Partially correct
Mark 0.40 out of 1.00
 Consider the following EBNF grammar.
 Hog → egg { Bug tie }+ | bar Fly
 Fly → Hog car Bug
 Bug → hut [ Hog ] { map | Bug }
 Translate it into a grammar 4-tuple.
 You must fill in something in each field to get a marking.
   Terminals = { "egg", "tie", "bar", "car", "hut", "map" }
 Nonterminals { "Bugtie", "Fly", "Hog", "Bug", "mapBug" }
  Start symbol "Hog"
       Rules = \{[NT1]\}
         Your last answer was interpreted as follows:
                                                     \{egg, tie, bar, car, hut, map\}
         Your last answer was interpreted as follows:
                                                  {Bugtie, Fly, Hog, Bug, mapBug}
         Your last answer was interpreted as follows:
                                                                   Hog
         Your last answer was interpreted as follows:
                                                                 \{[NT_1]\}
         The variables found in your answer were: [NT_1]
```

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: 171

Signing code: 10212

Your last answer was interpreted as follows:

10212

■ Technical test

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