Email:	aib743@student.bham.ac.uk
Test Name:	**EFC Week 1**
Taken On:	30 Sep 2017 17:44:31 BST
Time Taken:	22 min 55 sec/ 60 min
UoB Student Number:	1784643
Invited by:	Dan
Tags Score:	

Total
Score
7.33/10
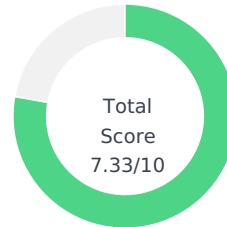
Recruiter/Team Comments:

No Comments.

Question Description	Time Taken	Score	Status
Q1 **Programming languages** › **Multiple Choice**	43 sec	2/ 2	✓
Q2 **Self-reference** › **Multiple Choice**	3 min 42 sec	1.33/ 2	⚠
Q3 **Rewriting** › **Multiple Choice**	2 min 19 sec	2/ 2	✓
Q4 **Rewriting** › **Multiple Choice**	9 min 30 sec	0/ 2	✗
Q5 **Rewriting** › **Multiple Choice**	6 min 15 sec	2/ 2	✓

QUESTION 1

✓

Correct Answer

Score 2

Programming languages › Multiple
Choice

QUESTION DESCRIPTION

Which of the languages below are based on the Lambda Calculus?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

○ ASSEMBLY

○ C

✓ ◉ OCAML

○ JAVA

✓ ◉ F#

No Comments

QUESTION 2

Correct Answer

Score 1.33

Self-reference › Multiple Choice

QUESTION DESCRIPTION

Which of the sentences below could be interpreted as self-referential (referring to themselves)?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ✓ ⦿ I am a liar.
- ✓ ○ I am going to tell you this only once.
- ○ Self-referential sentences may lead to paradoxes.
- ✓ ⦿ All sentences in 41 characters are false.

No Comments

QUESTION 3

Correct Answer

Score 2

Rewriting › Multiple Choice

QUESTION DESCRIPTION

Consider the rewriting system with the rules:
1. XY ⟶ YX
2. YX ⟶ XY

Starting from the initial string XXXYYY which of the strings below **can** be derived in this system?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ✓ ⦿ XYXYXY
- ✓ ⦿ YYYXXX
- ○ XXXXXX
- ○ XXYYY

No Comments

QUESTION 4

❌ **Wrong Answer**

Score 0

Rewriting › Multiple Choice

QUESTION DESCRIPTION

Consider the rewriting system with the rules:

1. aa ⟶ ϵ
2. aaa ⟶ aaaaa
3. aaa ⟶ a

Starting from the initial string aaaaaaaaaa which of the strings below **can** be derived in this system?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ✅ ⦿ aaaaaaaaaaaaaaaaaaa
- ⦿ aaaaaaaaaaaaaaaaaa
- ✅ ⦿ aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
- ◯ a

No Comments

QUESTION 5

✅ **Correct Answer**

Score 2

Rewriting › Multiple Choice

QUESTION DESCRIPTION

In the **Llama Game**, which configurations below don't lead to a normal form (solution of the puzzle)?

CANDIDATE ANSWER

Options: (Expected answer indicated with a tick)

- ◯ ▷◀▷◀▢
- ✅ ⦿ ▷▷◀▢_▷◀◀▢
- ✅ ⦿ ▷▷◀▢◀▢
- ◯ ▷◀▢◀▢▷◀▢▷◀▢

No Comments