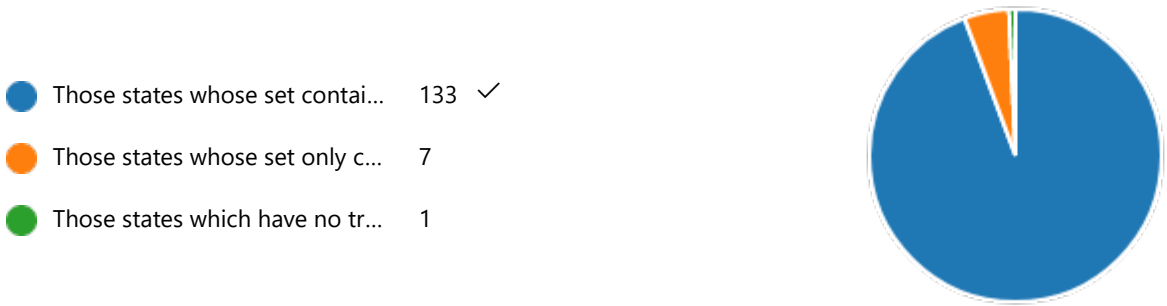
AA3 - Non-Deterministic Finite Automata (MIEIC-TCOM-2020-21)

141	7.2	Closed
Responses	Average Score	Status

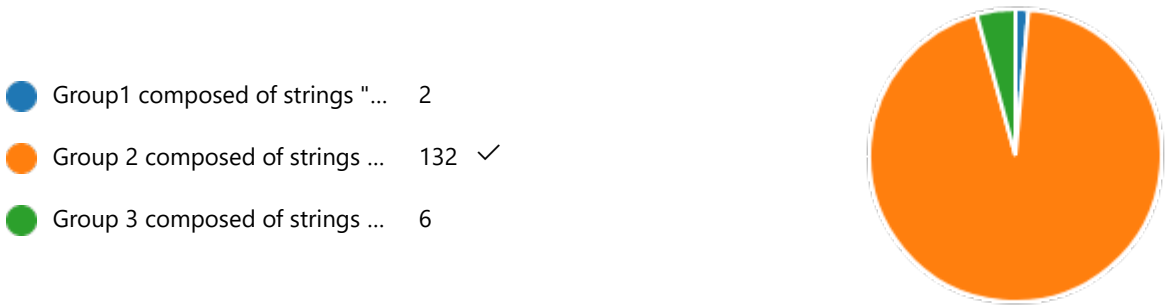
1. When using subset construction to build a DFA from a NFA, which states of the DFA become accepting? (1 point)

   94% of respondents (133 of 141) answered this question correctly.



2. Considering the following NFA, if we build a corresponding DFA using the subset construction technique, which group has all its strings accepted by the DFA? (1 point)

   94% of respondents (132 of 140) answered this question correctly.



3. Considering the following NFA, if we build a corresponding DFA using the subset construction technique, how many states have a direct transition to the dead state, in the corresponding DFA? (1 point)

82% of respondents (116 of 141) answered this question correctly.

1	116 ✓
2	17
3	8
4	0

4. Considering the following NFA, which of the following options best describes the language accepted by it? (2 points)

86% of respondents (120 of 140) answered this question correctly.

Language composed of 0's an...	14
Language composed of 0's an...	6
Language composed of 0's an...	120 ✓

5. Considering the following NFA, if we build a corresponding DFA using the subset construction technique, how many states does the DFA has? (2 points)

78% of respondents (104 of 134) answered this question correctly.

8	104 ✓
9	10
10	8
11	12

Relativamente à pergunta 5, a resposta correta é 7 estados (o estado morto não é incluído pois não é atingível). Como tal, todos os alunos tiveram a pontuação máxima nesta questão.

6. Considering the NFA from the previous question, what is the result of δ^(q0, 01101)? (1 point)

84% of respondents (119 of 141) answered this question correctly.

{q0, q2}	10	
{q0, q1, q2}	119	✓
{q0, q2, q3}	4	
{q0, q1, q2, q3}	8