

Last name	
First name	
Group	

Grade	
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Algorithmics
Undergraduate 2nd year - S3#
Final Exam #3 (P3)
14 December 2019
Answer Sheets

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Answers 1 (Spanning Forest – 2 points)

Spanning forest and extra-edges for the depth-first search of the graph G_1 :

Answers 2 (Union-Find – 3 points)

1. Number of vertices of each connected component:

C_1 : _____
 C_2 : _____
 C_3 : _____

2. Edges to add: _____

3. Among the following chains, which can not exist in G ?

☐ 3 \leftrightarrow 7
 ☐ 11 \leftrightarrow 6
 ☐ 0 \leftrightarrow 13
 ☐ 4 \leftrightarrow 9

