Last name	
First name	
Group	

Grade	
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Algorithmics Undergraduate 1^{st} year S1 Final Exam #1 (P1) 9 Jan. 2018 - 10:00 Answer Sheets

1	
2	
3	
4	
5	

Answers 1 (Stack or queue? -2 points)

	stack	queue	neither
A B C D E F			
$B\ D\ E\ F\ A\ C$			

	stack	queue	neither
D E C B F A			
F E D C B A			

Answers 2 (Binary Search – 3 points)

2. (a) Comparison number (integer):

1. Decision tree learning of a binary search:

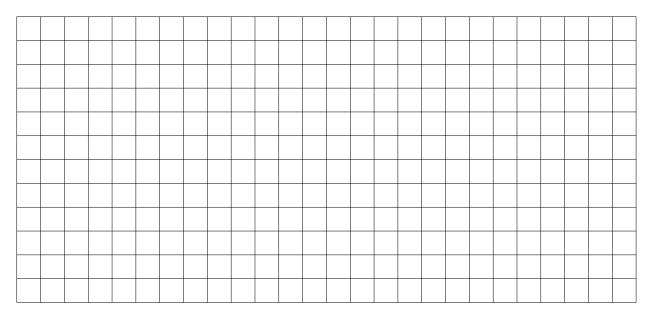
[1 , 16]		
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(b) List length:

$\textbf{\textit{Answers 3} (ALGO \rightarrow Python - \textit{\textit{3} points})}$

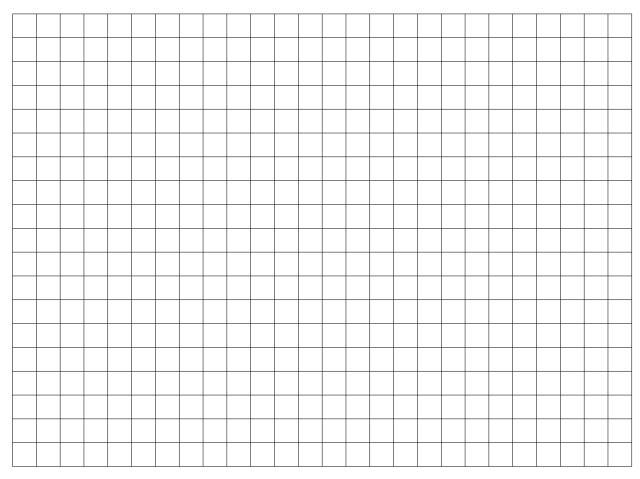
1. What does the function test do?

2. The Python function test:



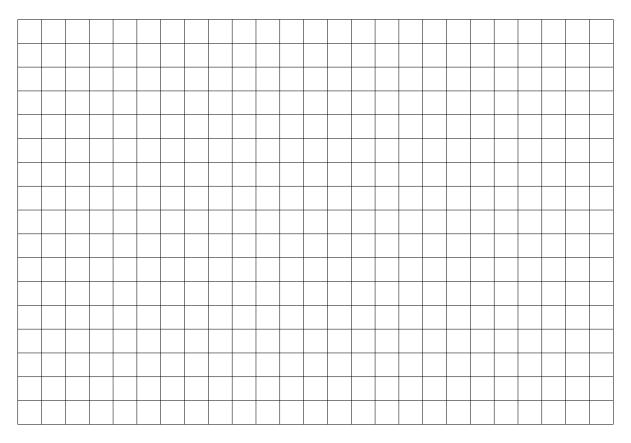
Answers 4 (Minimaxi – 3 points)

The function posMiniMaxi:



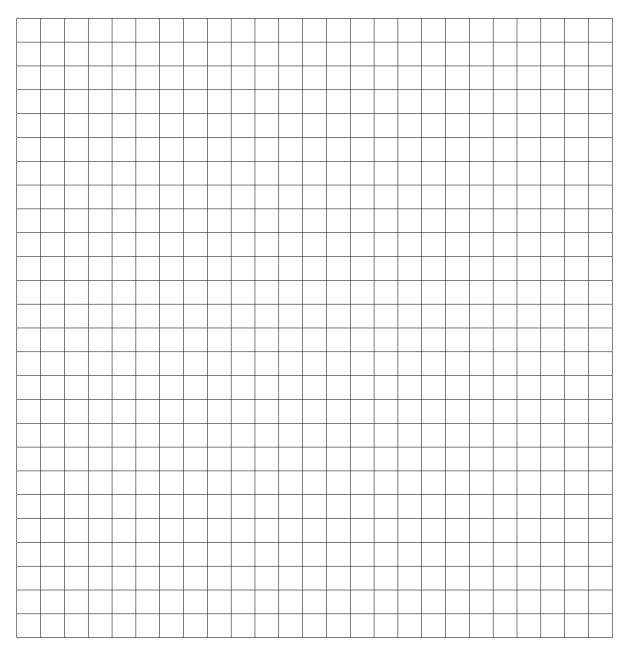
Answers 5 (Merge sort -2.5 + 5 + 2.5 points)

1. The function partition:





2. The function merge:



3. The function mergesort:

