

# Stem and Leaf Plots (B)



Leave answers to 2 decimal places when necessary.

**Section A** Write down the range, mode, median and mean from the stem and leaf plot.

9	4	5	7	
10	0	6	6	7 9
11	1	3	4	8
12	2	6		

Range =

Mode =

Median =

Mean =

Key 9 | 3 means 93

7	1	1		
8	2	2	2	5
9	0	9		
10	3	8	8	9

Range =

Mode =

Median =

Mean =

Key 7 | 8 means 7.8

**Section B** Put the numbers in the box into the stem and leaf plot and include a key.


12.6 9.9  
10.2  
12.0 9.5 10.7  
12.4 9.6  
12.8 10.1 12.4


2.55 2.41  
2.58 2.45  
2.40 2.56  
2.63 2.49 2.58  
2.44 2.47

**Section C** Here are the weights of a group of children in two different classes. The weights are measured to the nearest kilogram. Complete the back to back stem and leaf plot.

Anisa's class

30 kg 39 kg  
32 kg 55 kg  
42 kg 48 kg  
34 kg 51 kg  
57 kg 44 kg  
36 kg 46 kg  
36 kg 42 kg

Jo's class

24 kg 48 kg  
41 kg 32 kg  
33 kg 29 kg  
30 kg 47 kg  
38 kg 34 kg  
40 kg 46 kg  
44 kg 35 kg


**Section D** The heights of a group of boys and girls is measured to the nearest hundredth of a meter. The heights are given below. Construct a back to back stem and leaf plot in the space below.

Boys

1.47 m 1.33 m  
1.51 m 1.58 m  
1.42 m 1.46 m  
1.39 m 1.50 m  
1.44 m 1.61 m  
1.46 m 1.35 m  
1.49 m 1.52 m

Girls

1.28 m 1.31 m  
1.32 m 1.45 m  
1.39 m 1.54 m  
1.45 m 1.45 m  
1.59 m 1.65 m  
1.31 m 1.52 m  
1.34 m 1.38 m

Comment and compare the heights of the group of boys and girls.

**Extension** For Section C, calculate what percentage of Anisa's class weigh more than the mean.

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**Science Materials Center, New York**



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web find the connected components in the array `cc = bwconncomp bw` `cc` struct with fields `connectivity` 26 `imagesize` 3 3 3 `numobjects` 2 `pixelidxlist` 5x1 double 3x1 double calculate centroids of the objects in the array `s = regionprops cc` `centroid` s 2 1 struct array with fields `centroid`

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web a dfs based algorithm computes the connected components time complexity is  $O(n + e)$  where  $n$  and  $e$  are number of nodes and edges respectively `s = conncomp bgobj weak weakvalue` indicates whether to find weakly connected components or strongly connected components

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web mar 30 2014 `ccnew pixelidxlst` woo for example if you choose the first edge point `x1 y1` and you compute `bwdistgeodesic bw y1 x1 cityblock` you will get a distance matrix whose values will be in the range 0 number of connected components 1 at the location `x1 y1` of your first point the distance matrix value will be 0 those of the next

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web a dfs based algorithm computes the connected components time complexity is  $O(n + e)$  where  $n$  and  $e$  are number of nodes and edges respectively `sc graphconncomp g weak weakvalue` indicates whether to find weakly connected components or strongly connected components

implementing a connected component labeling algorithm from - Apr 17 2023

web mar 29 2020 what is connected component labeling visualization of an example code in matlab what is connected component labeling this is a computer vision algorithm to detect and count the number of connected regions also called blobs in a binary image often this is done after a segmentation algorithm

**connected component labelling through matlab github** - Jun 07 2022

web may 16 2019 this is a matlab function that utilises the image processing toolbox to convert any image to its edge image using canny algorithm and then label connected components in it the whole labelling algorithm is in a function that you can apply to any image the edge image goes through the labelling algorithm and final image is displayed

**connected component labeling file exchange matlab** - Mar 16 2023

web feb 10 2014 this function is partly based on the two pass algorithm described here [en wikipedia org wiki connected component labeling](https://en.wikipedia.org/wiki/connected_component_labeling) i did not make use of the disjoint data set structure at least that i am aware of to connect the linked labels