Data Analyst

06 March 2017
8:37 PM

Brief

Sandra is a manufacturer of widgets. She has 4 colours of widgets: Blue, Red, Green and Purple. Recently she has had a issue with quality of the parts related to lengths the widgets being outside of tolerance. Each widget is allowed to be between 13cm & 14cm long (inclusive). She has asked her team to measure the length of 50,000 components and mark down the colour of each.

As a data analyst she would like you to provide her with an output file saying.

- For each color group: number of components in that group, percentage of parts outside of tolerance, the mean length, the variance of the length.

Note: Unfortunately while marking down the colour of each part her team used slightly different syntax to describe the colour. She would like you to correct this before producing her outputs.

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Expected results

Please download the dataset linked to this test, and send back a processed data with the following output table format:

Colour	Number of parts	Percentage Pass	Mean length	Variance of length
Blue				
Green				
Purple				
Red				

Please create an archive containing

- original data.csv
- info.csv with your email filled
- result.csv file following previous table example
- your corresponding code which was used to generate the result.csv file based on provided data.csv file

Upload that archive on the Hub, and in case of any issue you can also send an email with that archive to Sam CrawShay Jones

Pasted from <http://test01.airbusdigital.com/>

mailto:sam.crawshay-jones@airbus.com