

# VouchedFor Coding Test

Thank you for your interest in VouchedFor. For this is the stage in the process it's all about the code. Read the instructions carefully and we look forward to reviewing your submission. Good luck!

## Exercise

At VouchedFor, we strive to put our consumers first, we want to make sure that when someone has vouched for a professional - it's genuine.

This exercise is to build a simple tool that can build up an integrity score for a professional advisor based on attributes of the reviews they receive.

Everyone starts off with an integrity score of 100% (how nice are we?!) which is affected by the indicators below.

When the score goes below 70% then the tool should warn a customer service agent to go and investigate. If it goes below 50% then the professional is deactivated and an alert raised.

### Negative Indicators:

**Lots to say:** Genuine reviewers tend to say less - knock 0.5% points off for each review that contains more than 100 words.

**Burst:** If a number of reviews come in within the same time frame - knock 40% points off if 2 or more come through in the same minute, 20% points if they come through in the same hour.

**Same Device:** We have a system that forms a readable tag (e.g. LB4-6WR) based on the browser/device/location. If we are seeing multiple reviews coming from the same device knock 30% points off each time.

**All-Star:** Non-genuine reviews are likely to have a five star rating take 2% points off the integrity score for each review that has 5 stars; quadruple the penalty if the average is under 3.5 stars.

### Positive Indicators:

**Solicited:** If the review was left by someone who was invited by the professional then add 3% points to the integrity score.

The tool should produce the following outputs for the inputs.

## Test Input

12th July 12:04,Jon,solicited,LB3 TYU,50words,\*\*\*\*\*  
12th July 12:05,Jon,unsolicited,KB3 IKU,20words,\*\*  
13th July 15:04,Jon,unsolicited,CY8 IPK,150words,\*\*\*  
15th July 10:04,Jon,solicited,BB4 IPK,40words,\*\*\*\*\*  
15th July 15:09,Jon,monkey  
29th August 10:04,Jon,solicited,LX2 IPK,70words,\*\*\*\*  
2nd September 10:04,Jon,solicited,KB3 IKU,50words,\*\*\*\*  
2nd September 10:04,Jon,solicited,AN9 IPK,90words,\*\*

## Test Output

Info:Jon has a trusted review score of 100  
Info:Jon has a trusted review score of 80  
Info:Jon has a trusted review score of 79.5  
Info:Jon has a trusted review score of 74.5  
Could not read review summary data  
Info:Jon has a trusted review score of 77.5  
Warning:Jon has a trusted review score of 50.5  
Alert:Jon has been de-activated due to a low trusted review score

## Instructions

Have fun!.

Choose the programming language you think demonstrates your software engineering skills best.

When you are finished, zip up your work and email it to us, or provide an online link to the code.

How to pass this test:

1. Submit production quality code - something that runs, is easy to maintain and add new features.
2. Don't gold plate
3. No frameworks, external libraries or tools except for testing and building your code (e.g., Ant, Rspec, Rake, Jasmine, Karma, Jake, Gulp etc.)
4. Briefly explain your design decisions - let us know your thinking