





















# Challenge - reading and splitting a csv file

## Analyse This!

Japan		30–10		Russia
Ireland		27–3		Scotland
Russia		9–34		Samoa
Japan		19–12		Ireland
Scotland		34–0		Samoa
Ireland		35–0		Russia
Japan		38–19		Samoa
Scotland		61–0		Russia
Ireland		47–5		Samoa
Japan		28–21		Scotland

A **Comma Separated Values** (CSV) *file* is a plain text *file* that contains a list of data. ... CSV *files* are designed to be a way to easily export data and import it into other programs. The resulting data is human-readable and can be easily viewed with a text editor like Notepad. Some contain a header that details each field (column), others do not! They mostly use the comma character to separate (or delimit) data, but sometimes use other characters, like semicolons.

Download the [scores.csv](https://canvas.qub.ac.uk/courses/11041/files/1074148/download?wrap=1) (<https://canvas.qub.ac.uk/courses/11041/files/1074148/download?wrap=1>)  
 ↓ ([https://canvas.qub.ac.uk/courses/11041/files/1074148/download?download\\_frd=1](https://canvas.qub.ac.uk/courses/11041/files/1074148/download?download_frd=1)) file (add to the root of your Java Project in Eclipse).

Each line in the csv contains the score for a single match. Read each line and split each line based on the comma...

**Example :**

***String studentDetails = "Mr,George,Best,Belfast,Northern Ireland"; // this would be a typical line in a cvs file***

***// string array to hold the student details split by the comma***

***String[] studentDetailsSplit = studentDetails.split(","); // a string method that creates an array os strings based on the location of the commas***

***// so that :***

***System.out.println(studentDetailsSplit[0]); // is the first text before the first comma i.e Mr***

***System.out.println(studentDetailsSplit[1]); // is the second text before the second comma ie. George etc..***

***System.out.println(studentDetailsSplit[2]);***

***System.out.println(studentDetailsSplit[3]);***

***System.out.println(studentDetailsSplit[4]);***

Then output each game score (and determine the winner) i.e.

Japan 30 : Russia 10      Winner Japan  
Ireland 27 : Scotland 3    Winner Ireland  
Russia 9 : Samoa 34      Winner Samoa  
Japan 19 : Ireland 12     Winner Japan  
Scotland 34 : Samoa 0    Winner Scotland  
Ireland 35 : Russia 0     Winner Ireland  
Japan 38 : Samoa 19      Winner Japan  
Scotland 61 : Russia 0    Winner Scotland  
Ireland 47 : Samoa 5      Winner Ireland  
Japan 28 : Scotland 21    Winner Japan

Hint on comparing scores ... **int number = Integer.parseInt("2");**

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Solution > [AnalyseThis.java \(https://canvas.qub.ac.uk/courses/11041/files/1074160/download?wrap=1\)](https://canvas.qub.ac.uk/courses/11041/files/1074160/download?wrap=1)  [\(https://canvas.qub.ac.uk/courses/11041/files/1074160/download?download\\_frd=1\)](https://canvas.qub.ac.uk/courses/11041/files/1074160/download?download_frd=1)