

```
Windows PowerShell
PS C:\Users\Raz\Desktop\GBC\COMP3133\Labs\Lab1> node index.js
Finished reading CSV file.
Wrote 12 rows to C:\Users\Raz\Desktop\GBC\COMP3133\Labs\Lab1\canada.txt
Wrote 12 rows to C:\Users\Raz\Desktop\GBC\COMP3133\Labs\Lab1\usa.txt
All files written.
PS C:\Users\Raz\Desktop\GBC\COMP3133\Labs\Lab1> |
```

country,year,population

Canada, 1952, 14785584

Canada, 1957, 17010154

Canada, 1962, 18985849

Canada, 1967, 20819767

Canada, 1972, 22284500

Canada, 1977, 23796400

Canada, 1982, 25201900

Canada, 1987, 26549700

Canada,1992,28523502

Canada, 1997, 30305843

Canada, 2002, 31902268

Canada, 2007, 33390141

canada.txt

usa.txt

✕

+

—

□

✕

FileEditViewH1⌵☰⌵**B***I*↺⌵Ab⌵🌈⌵👤⚙️

country,year,population
United States,1952,157553000
United States,1957,171984000
United States,1962,186538000
United States,1967,198712000
United States,1972,209896000
United States,1977,220239000
United States,1982,232187835
United States,1987,242803533
United States,1992,256894189
United States,1997,272911760
United States,2002,287675526
United States,2007,301139947

Ln 1, Col 1372 charactersPlain text100%Unix (LF)UTF-8

```
File Edit Selection View Go Run Terminal Help
index.js > (for) callback
1 // index.js
2
3 const fs = require("fs");
4 const path = require("path");
5 const csv = require("csv-parser");
6
7 // Input and output file paths
8 const INPUT_FILE = path.join(__dirname, "input_countries.csv");
9 const CANADA_FILE = path.join(__dirname, "canada.txt");
10 const USA_FILE = path.join(__dirname, "usa.txt");
11
12 // a) delete canada.txt and usa.txt if they already exist
13 [CANADA_FILE, USA_FILE].forEach((filePath) => {
14   if (fs.existsSync(filePath)) {
15     fs.unlinkSync(filePath);
16     console.log('deleted existing file: ' + filePath);
17   }
18 });
19
20 // arrays to store filtered rows
21 const canadaRows = [];
22 const usaRows = [];
23
24 // read CSV using stream + csv-parser
25 fs.createReadStream(INPUT_FILE)
26   .pipe(csv())
27   .on("data", (row) => {
28     // normalize country name to lower case for safer comparison
29     const country = String(row.country || row.Country || "").toLowerCase();
30
31     if (country === "canada") {
32       canadaRows.push(row);
33     } else if (
34       country === "united states" ||
35       country === "united states of america" ||
36       country === "usa"
37     ) {
38       usaRows.push(row);
39     }
40   })
41   .on("end", () => {
42     console.log("Finished reading CSV file.");
43
44     // b) write Canada data to canada.txt
45     writeCountryFile(CANADA_FILE, canadaRows, "canada");
46
47     // c) write United States data to usa.txt
48     writeCountryFile(USA_FILE, usaRows, "united states");
49   });
```