

## Requirement

In C#, write a program that parses a sentence and replaces each word with the following: first letter, number of distinct characters between first and last character, and last letter.

For example, Smooth would become S3h. Words are separated by spaces or non-alphabetic characters and these separators should be maintained in their original form and location in the answer.

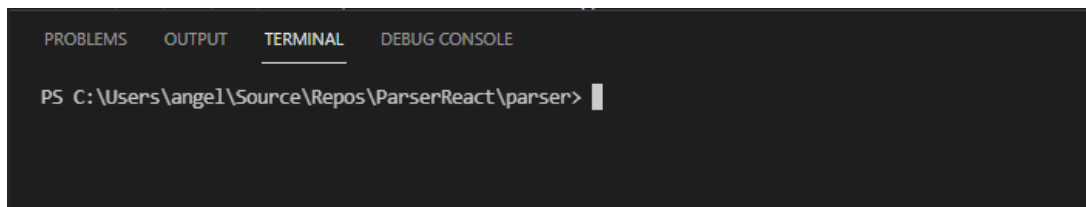
## Technical Specifications.

The project considers back-end and front-end. The back-end is an API built in .Net Core and it contains the logic to parse the string according to the requirement. The front-end is a React project that calls the API, this project encodes the string and sends it to the API, then the API decodes the string and parses it.

## How to run the project.

To run the application, follow these steps.

1. With Visual Studio Code, open the “parser” folder inside “ParserReact”
2. Open a new Terminal from menu/Terminal/New Terminal



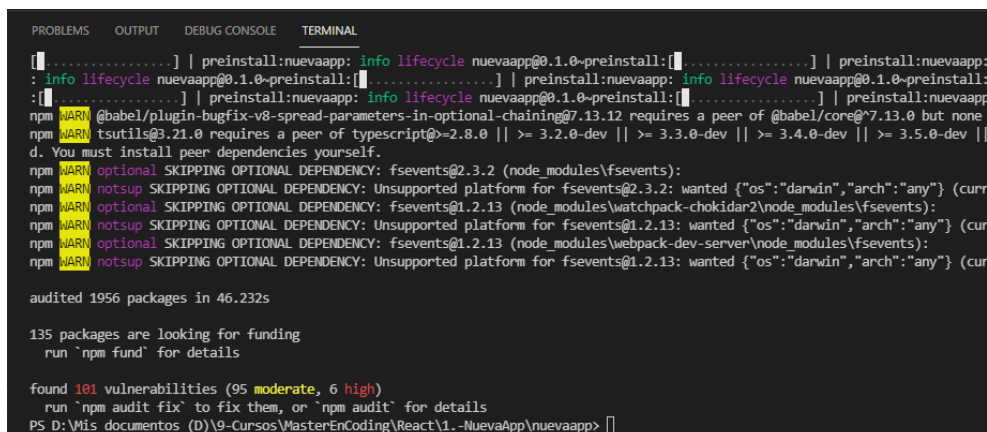
```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

PS C:\Users\angel\Source\Repos\ParserReact\parser>
```

3. Execute the following command.

**npm install**

4. After a few seconds, you will see something like the following image.



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

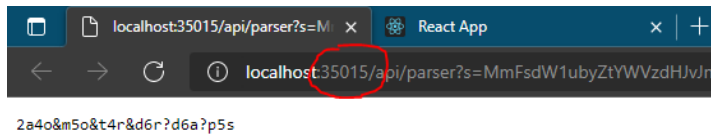
[ ] | preinstall:nuevaapp: info lifecycle nuevaapp@0.1.0-preinstall:[] | preinstall:nuevaapp:
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npm WARN @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining@7.13.12 requires a peer of @babel/core@^7.13.0 but none
npm WARN tsutils@3.21.0 requires a peer of typescript@>=2.8.0 || >= 3.2.0-dev || >= 3.3.0-dev || >= 3.4.0-dev || >= 3.5.0-dev ||
d. You must install peer dependencies yourself.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any"} (curr
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\watchpack-chokidar2\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (cur
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\webpack-dev-server\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (cur

audited 1956 packages in 46.232s

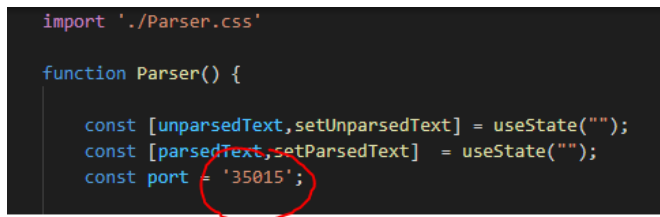
135 packages are looking for funding
  run `npm fund` for details

found 101 vulnerabilities (95 moderate, 6 high)
  run `npm audit fix` to fix them, or `npm audit` for details
PS D:\Mis documentos (D)\9-Cursos\WasterEnCoding\React\1.-NuevaApp\nuevaapp>
```

- Now, run the .Net Core API project and check the port.



- Copy the port in any place and go to Visual Studio Code in src/components/parser to open the file Parser.js
- Then change the port as shown.



- Click on save changes or Ctrl+s
- In Visual Studio Code terminal, write and run this command.

**npm start**

The following web page will show:

