

Fundamentals of Web Development SBA 2021

Total marks: 30 marks

Total time: 2 hours

1. (8 marks)

Fetch a list of users from the <https://reqres.in/> API. Read the documentation for how to access the API.

Create a 'card' for each user by manipulating the DOM with JavaScript inside the script tags below.

Display their first name, last name, email, and their avatar as an image.

Style your cards to match the cards shown below.



2. (5 marks)

The below HTML and CSS displays the skills for 2 heroes and 2 bosses (in a hypothetical game)

Do NOT change the HTML, and do NOT edit existing CSS rules. Just add new CSS to:

1. Change the text colour of the Fire Troll's heading to "firebrick" (1 mark)
2. Change the text colour last skill (special attack) of both bosses' list to "white" (2 mark)
3. Change the list-style of all the skill lists to 'square' EXCEPT the Water Wizard (leave his as is).
(2 marks for writing this as concisely as possible - i.e. 1 selector/style definition;
otherwise 1 mark for getting the style correct regardless of how)

See below for the desired result.

Fire warrior (hero)

- Fireball
- Fire shield

Water wizard (hero)

- Water wall
- Healing

Fire troll (boss)

- Fire sword
- Super fire attack (special)

Earth golem (boss)

- Rock throw
- Super earth attack (special)

3. (3 marks)

Using JavaScript, take the given string and REPLACE the THIRD name (separated by commas) with 'SONIC'.

Replace ONLY the THIRD name! (Hint: you might want to turn the string into an array first?)

Your answer should be assigned to newString.

See below for an example of the expected output.

```
MARIO,LUIGI,SONIC,MARIO
```

4. (2 marks)

Filter the provided JavaScript array into two new arrays, one with all the 'adults' (aged 18 years or over), and one with all the 'children' (aged less than 18 years).

See below for the desired output (when 'adults' and 'children' are logged to the console, respectively).

```
▼ (4) [{...}, {...}, {...}, {...}] ⓘ  
  ▶ 0: {name: "Cameron", age: 26}  
  ▶ 1: {name: "Lauren", age: 22}  
  ▶ 2: {name: "Dylan", age: 18}  
  ▶ 3: {name: "Pam", age: 19}  
    length: 4  
  ▶ __proto__: Array(0)
```

```
▼ (2) [{...}, {...}] ⓘ  
  ▶ 0: {name: "Suzie", age: 13}  
  ▶ 1: {name: "Simon", age: 9}  
    length: 2  
  ▶ __proto__: Array(0)
```

5. (3 marks)

Write some css to make a 'fancy first letter' for the given text below.

Below is the desired result. (Hint: the font used is a Google Font called 'UnifrakturMaguntia')

St was the best of times, it was the worst of times, it was the age of wisdom, it was the age of foolishness, it was the epoch of belief, it was the epoch of incredulity, it was the season of Light, it was the season of darkness, it was the spring of hope, it was the winter of despair, we were all going direct to Heaven, we were all going direct the other way – in short, the period was so far like the present period, that some of its noisiest authorities insist only.

6. (2 marks)

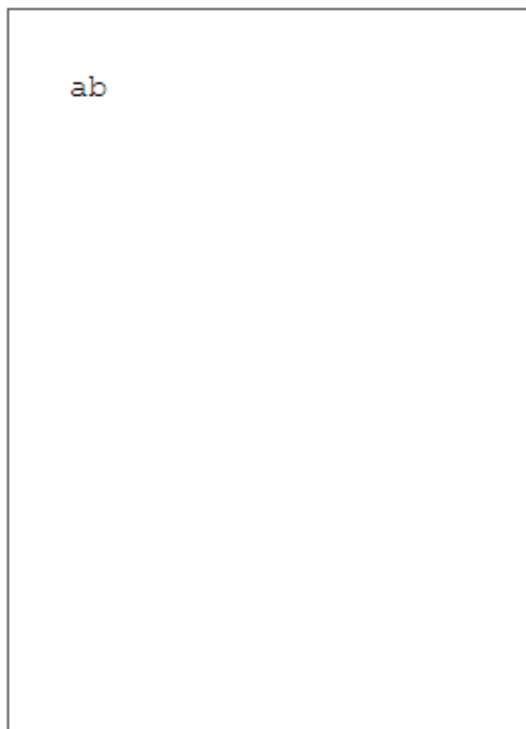
In the HTML file is a rudimentary 'typewriter'... as you type in the input, the text appears on the 'page'...

However, there is currently a bug where each letter does not appear until THE NEXT letter is entered. (Try it out to see the bug in action).

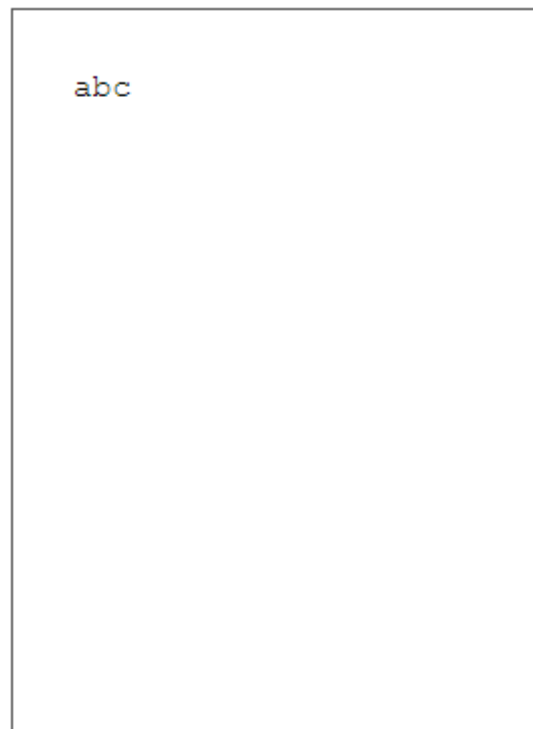
Fix the code so each letter appears on the page AS it is typed in the input. (Hint: this question is testing your knowledge of WHEN different types of events are fired.)

See below for desired output.

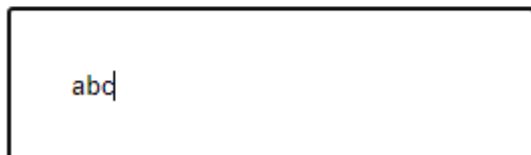
CURRENT:



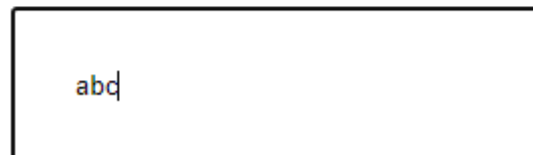
DESIRED:



TYPEWRITER



TYPEWRITER



7. (4 marks)

There is CSS missing!

Work out which properties and values to add back in to make the results look like the guide picture below.



8. (3 marks)

Fix the error in the HTML file.