

Fundamentals of Web Development SBA 2021 2

Total marks: 30 marks

Total time: 2 hours

1. (8 marks)

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

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

Display the name and year in the card, and change the card background to the color supplied.

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 Warrior's heading to "firebrick" (1 mark)
2. Change the text colour of the first skill (NOT the special attack) of both bosses' list to "white" (2 marks)
3. Change the list-style of all the skill lists to 'square' EXCEPT the Fire troll (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 'BOWSER'.

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

Your answer should be A STRING and be assigned to newString.

See below for an example of the expected output.

```
MARIO,LUIGI,BOWSER,MARIO,MARIO
```

4. (2 marks)

Filter the provided JavaScript array into two new arrays, one with all the 'rich' (with \$10000 or more), and one with all the 'poor' (with less than \$10000).

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

```
▼ (2) [{...}, {...}] ⓘ  
  ▶ 0: {name: "Simon", money: 10456}  
  ▶ 1: {name: "Dylan", money: 180000}  
    length: 2  
  ▶ __proto__: Array(0)  
▼ (4) [{...}, {...}, {...}, {...}] ⓘ  
  ▶ 0: {name: "Suzie", money: 9000}  
  ▶ 1: {name: "Cameron", money: 9999}  
  ▶ 2: {name: "Lauren", money: 200}  
  ▶ 3: {name: "Pam", money: 15}  
    length: 4  
  ▶ __proto__: Array(0)
```

5. (3 marks)

WITHOUT ADDING ANY HTML write some CSS to make the given text look like the image below.

(Hint: the font used is a Google Font called 'Bodoni Moda')

IT 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 had everything before us, we had nothing before us, 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 insisted on its being received, for good or for evil, in the superlative degree of comparison only.

6. (2 marks)

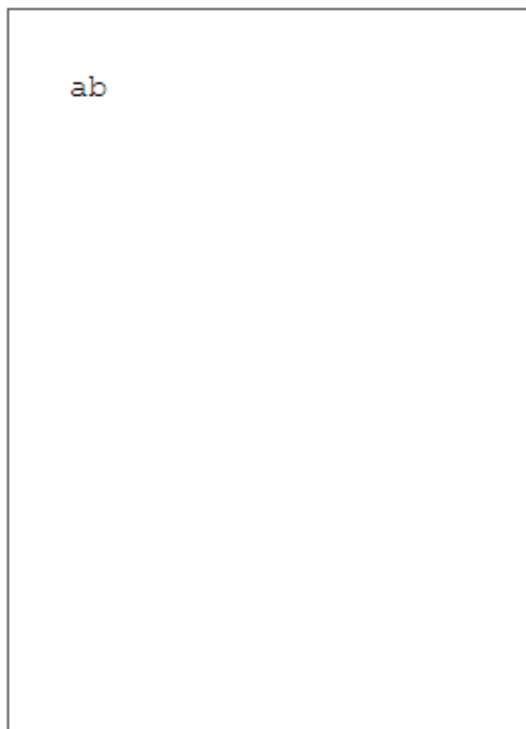
In the HTML file is a rudimentary 'typewriter'... as you type in the input, the text appears on the 'page'...

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).

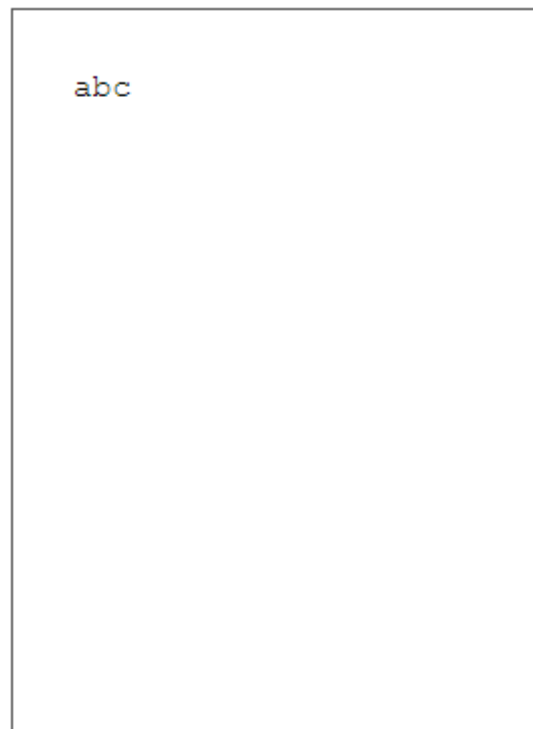
Fix the code so each letter appears on the page AS it is typed in the input. (Hint: this question is testing your knowledge of WHEN different types of events are fired.)

See below for desired output.

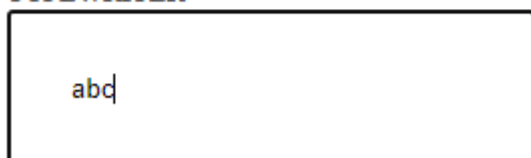
CURRENT:



DESIRED:



TYPEWRITER



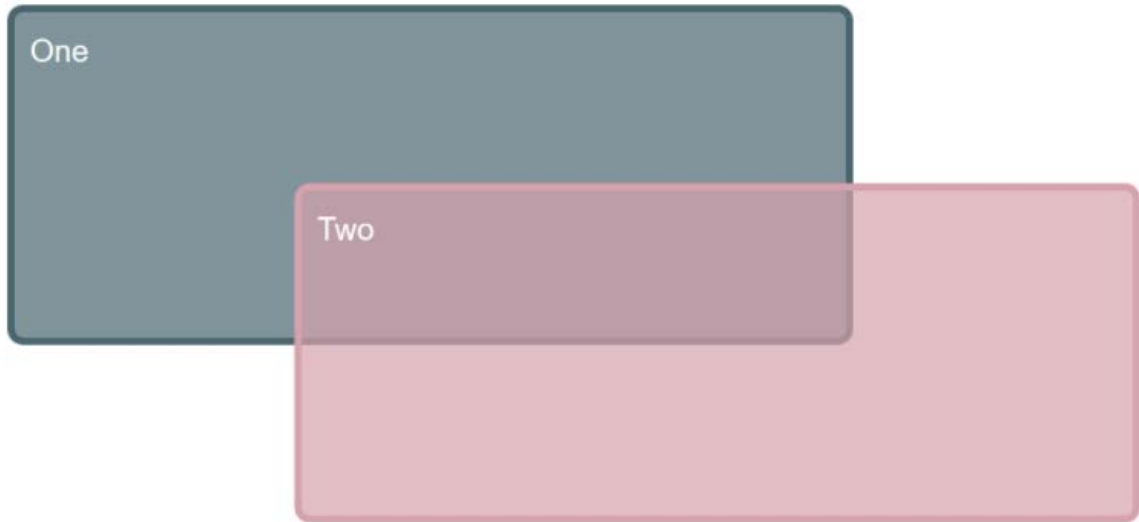
TYPEWRITER



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.