

TRIMESTER 2 2023 COSC260 Web Programming

Question 33

Answer saved

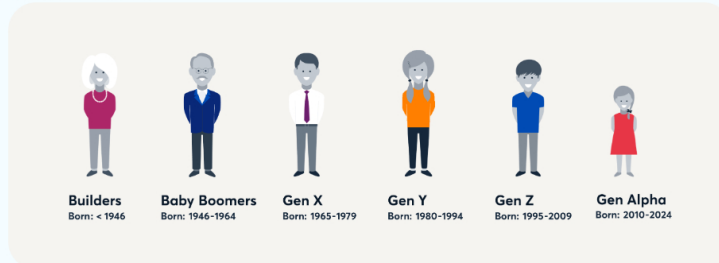
Marked out of 6.00

Flag question

Write a Javascript pseudoclass to represent a geek. It should have the following properties: **name** and **date of birth**.

It should also include:

- an anonymous function that determines the geek's generation based on the information in the diagram below:

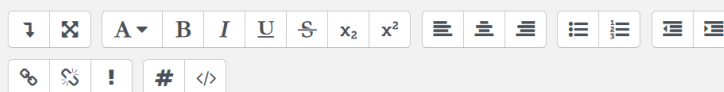


Source: <https://mccrindle.com.au/article/topic/demographics/the-generations-defined/>

- an anonymous function that uses the information in the diagram below to determine the geek's star sign based on their date of birth.

- **Aries** (March 21 – April 19)
- **Taurus** (April 20 – May 20)
- **Gemini** (May 21 – June 20)
- **Cancer** (June 21 – July 22)
- **Leo** (July 23 – August 22)
- **Virgo** (August 23 – September 22)
- **Libra** (September 23 – October 22)
- **Scorpio** (October 23 – November 21)
- **Sagittarius** (November 22 – December 21)
- **Capricorn** (December 22 – January 19)
- **Aquarius** (January 20 – February 18)
- **Pisces** (February 19 – March 20)

Source: <https://www.allure.com/story/zodiac-sign-personality-traits-dates>



```
function Geek(name, dateOfBirth) {
    this.name = name;

    this.dateOfBirth = new Date(dateOfBirth); // YYYY-MM-DD

    this.getGeneration = function() {
        const year = this.dateOfBirth.getFullYear();

        if (year < 1946) return "The Builders";
        if (year >= 1946 && year <= 1964) return "Baby Boomers";
        if (year >= 1965 && year <= 1979) return "Generation X";
        if (year >= 1980 && year <= 1994) return "Generation Y";
        if (year >= 1995 && year <= 2009) return "Generation Z";
        if (year >= 2010 && year <= 2024) return "Generation Alpha";
    };

    this.getStarSign = function() {
        const month = this.dateOfBirth.getMonth() + 1;
    }
}
```

Quiz navigation

i	i	1	2	3	4	5	6
7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	

[Finish attempt ...](#)

Time left **0:23:47**

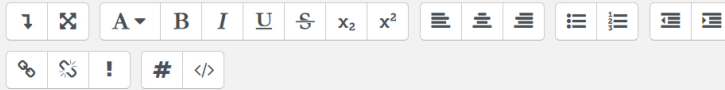
Question 34

Answer saved

Marked out of 5.00

Using an example, explain the primary drawback of defining the methods in this way.

Name a better approach to defining the methods. Improve your implementation, and provide the relevant/edited sections below.



The primary drawback of defining methods this way is that each instance of the Geek object will have its own copy of the `getGeneration` and `getStarSign` functions. This is not memory-efficient, especially when creating many instances of the object, as each instance will have separate copies of the same functions in memory.

A better approach would be to define these methods on the Geek prototype. When methods are added to the prototype, all instances of the object share the same method, making it more memory-efficient.

Below is the new revised code:

```
function Geek(name, dateOfBirth) {
```

Previous page

Next page



Acknowledgement of Country

The University of New England acknowledges that we are on Country of the Anaiwan people. UNE respects and acknowledges that its people, programs and facilities are built on land, and surrounded by a sense of belonging, both ancient and contemporary, of the world's oldest living culture. UNE also acknowledges the Gumbaynggirr, Kamilaroi, and Dhunghutti nations and pays its respect to the Elders, past and present, of these nations.

[Oorala Aboriginal Centre](#)

Support

View Support Links
Staying Connected
Library Services
Student Moodle Help
Information Technology Services

Administration
Academic Support
Support Services
Staff Moodle Help

WARNING Some of this material may have been copied and communicated to you in accordance with section 113P of the Copyright Act 1968 (Act). Any further reproduction or communication of this material by you may be the subject of copyright protection under the Act. Do not remove this notice.

UNE Time

une Armidale: Sun 16:04



All content Copyright © 2020 University of New England unless otherwise stated.
University of New England CRICOS Provider Number 00003G
ABN 75 792 454 315
[Disclaimer](#) | [Privacy](#)

[Get the mobile app](#)

