

Dear Candidate,

Here we would like to invite you for a small coding challenge. You can find the instruction below:

Modern Roman numerals are written by expressing each digit separately starting with the leftmost digit and skipping any digit with a value of zero. For example, in Roman numerals 1990 is rendered: 1000=M, 900=CM, 90=XC; resulting in MCMXC. 2008 is written as 2000=MM, 8=VIII; or MMVIII.

There is a group of school children who are currently learning Roman numerals, and your task is to create for them a basic Roman numerals converter that can convert a Roman numeral to and from an integer. Your solution should:

- Include a simple UI for the children to input and receive conversions between Roman numerals and integers;
- Implement a RomanNumerals helper that conforms to the following API:

```
RomanNumerals.toRoman(1000); // should return 'M'
```

```
RomanNumerals.fromRoman('M'); // should return 1000
```

- Be written in either vanilla JavaScript, HTML, and CSS or JSX (React);
- Address any further considerations that you think are appropriate.

We do not require a polished visual design as part of this challenge, but do expect the solution to be robust, intuitive to use, and easily verifiable. Once you have completed the challenge, please submit it via one of the listed methods:

- GitHub repository
- Online code sandbox
- Shared link on Google Drive, DropBox, etc.
- Zip email attachment