

We are sorry for the banality. This task is meant to test a range of skills that you have at the moment starting from the basic ones. We believe that you will take this test successfully. You should score a minimum of 16/30 points to be invited to the technical interview.

Test 1 (2/20)

Apply CSS styles (red color and black background) to the third paragraph of the following HTML template:

```
<div class="container">
  <p>First</p>
  <p>Second</p>
  <p>Third</p>
</div>
```

Test 2 (3/20)

Write a program that outputs sequentially the integers from 1 to 99 but on some conditions prints a string instead:

- when the integer is a multiple of 3 print "Open" instead of the number,
- when it is a multiple of 7 print "Source" instead of the number,
- when it is a multiple of both 3 and 7 print "OpenSource" instead of the number.

Test 3 (2/20)

Find all children of the container HTML element in the following template using native JavaScript functionality.

```
<div class="container">
  <div>A</div>
  <div>B</div>
  <div>C</div>
</div>
```

Test 4 (3/20)

Write a function that takes a list of strings and returns the sum of the list items that represent an integer (skipping the other items).

Example:

Input: ['1', 'a', '25', '13.1'].

Output: 26.

Test 5 (5/20)

Write a function that gets JSON from the following [link](https://jsonplaceholder.typicode.com/posts) (<https://jsonplaceholder.typicode.com/posts>) and returns an object with id = 5.

Test 6 (4/20)

Write a regular expression to match strings containing both "Softeq" and "#rules" in any order.

Test 7 (5/20)

Write a function that, when called, returns an array for which each element is a letter of the alphabet, from "A" to "Z" (exactly once, in order and upper case). Your code cannot contain the character ' (quote), " (double quote) or ` (backquote).

Test 8* (6/20)

Solve the game "Guess a number", find a secret integer between 1 and 1000000 in less than 50 guesses. Write a function that solves the game and returns the solution by using the function `verify()` which is defined with the following specification:

```
function verify(guess: integer) -> integer
```

Returns:

- 0 if the guess is the solution, your program won,
- -1 if the solution is smaller than the guessing parameter,
- 1 if the solution is bigger than the guessing parameter.

Warning: You are not allowed to call `verify()` more than 50 times or you lose.