

Fast Track Technical Test

Before You Get Started

- We're trying to be quick so your application can be as streamlined as possible:
Therefore we're offering this technical test without a prior phone screener, but we **don't want you to lose the ability to talk to us** should you want to.
- But, we still want to talk to you if you'd like to!
Please **let us know if you'd like to talk to an engineer** for a 5-10 minute chat about any aspect of the role or working at The FT before you take this test, we're very happy to chat with you and should be able to within 24 hours (hopefully less!).
- You can also find out about us from other places:
You could [read](#) about [our stack](#) and look at the code we make [public](#) on GitHub.

About the Test

Please spend between 10 to 60 minutes (maximum!) on this test. The questions are open ended, to be marked by a person, not a machine. Read them carefully - none of them are trying to trick you but we're surprised at how often candidates miss what we are asking.

Please feel free to answer the questions inline in this document or copy and paste into a text editor to answer inline if you'd prefer, or via a secret gist. Use whichever method suits you best whilst keeping the test private.

If you find any of the questions unclear or think they could be improved upon, please let us know in your answer.

Question A

A set of URLs is defined in an array:

```
var urls = [
  'http://example.com/data/foo.json',
  'http://example.com/data/bar.json',
  ...
];
```

Write JavaScript that

- fetches all of the URLs,
- after each request's success or failure, logs the result.
- When and if all have loaded, execute some logic on the result of all the calls.

You can assume the existence of a `makeRequest` function that returns a Promise, and should consider error handling.

Question B

You are looking at production code of an Express.js app and see this.

```
let myFile;

app.get('/', function (req, res) {
  myFile = require('fs').readFileSync('35df8h/user-data.txt', 'utf8');
  res.send(myFile);
});
```

Explain your feelings about this code. Is it optimally coded, how might you improve it if it isn't, and why?

Question C

You are using the following CSS to animate a menu.

```
nav {
  margin-left: -100%;
  transition: margin-left 0.5s;
}

nav.active {
  margin-left: 0;
}
```

Some users are complaining that the menu 'feels clunky' on their devices.

- How would you investigate/recreate it?
- Do you have any ideas how it could be fixed, and why this would work?