

URL Parser Exercise

We need some logic that extracts the variable parts of a url into a hash. The keys of the extract hash will be the "names" of the variable parts of a url, and the values of the hash will be the values. We will be supplied with:

1. A **url format string**, which describes the format of a url. A url format string can contain constant parts and variable parts, in any order, where "parts" of a url are separated with "/". All variable parts begin with a colon. Here is an example of such a url format string:

```
'/:version/api/:collection/:id'
```

2. A particular **url instance** that is *guaranteed* to have the format given by the url format string. It may also contain url parameters. For example, given the example url format string above, the url instance might be:

```
'/6/api/listings/3?sort=desc&limit=10'
```

Given this example url format string and url instance, the hash we want that maps all the variable parts of the url instance to their values would look like this:

```
{  
  version: 6,  
  collection: 'listings',  
  id: 3,  
  sort: 'desc',  
  limit: 10  
}
```

Please implement a solution to this problem in JavaScript (or your programming language of choice, if applying for a DevOps position) *with attention to code structure and readability*. Feel free to use low-level libraries like Lodash.