

← [course home \(/table-of-contents\)](#)

## You have a list of integers, and for each index you want to find the product of *every integer except the integer at that index*.

Write a function `get_products_of_all_ints_except_at_index()` that takes a list of integers and returns a list of the products.

For example, given:

```
[1, 7, 3, 4]
```

Python 3.6 ▼

your function would return:

```
[84, 12, 28, 21]
```

Python 3.6 ▼

by calculating:

```
[7 * 3 * 4, 1 * 3 * 4, 1 * 7 * 4, 1 * 7 * 3]
```

Python 3.6 ▼

Here's the catch: **You can't use division in your solution!**

---

Want more coding interview help?

Check out **[interviewcake.com](https://interviewcake.com)** for more advice, guides, and practice questions.