**Scenario I - Provide More Information**

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The first scenario to use a hash map is that we need more information rather than only the key. Then we can build a mapping relationship between key and information by hash map.

*An Example*

Let's look at an example:

Given an array of integers, return **indices** of the two numbers such that they add up to a specific target.

In this example, if we only want to return true if there is a solution, we can use a hash set to store all the values when we iterate the array and check if target - current\_value is in the hash set or not.

However, we are asked to return more information which means we not only care about the value but also care about the index. We need to store not only the number as the key but also the index as the value. Therefore, we should use a hash map rather than a hash set.

*What's More*

In some cases, we need more information not just to return more information but also to help us with our decisions.

In the previous examples, when we meet a duplicated key, we will return the corresponding information immediately. But sometimes, we might want to check if the value of the key is acceptable first.

