Question 1: Code Writing Write a function definition with the following expectations:

- The function name is value_exists and is called with a `dict[str,int]` and an `int` as an argument.

- The function should return a `bool`.

- The function should return `True` if the `int` exists as a value in the dictionary, and `False` otherwise.

- The function should not mutate (modify) the input dict.

- Explicitly type variables, parameters, and return types. (The autograder won't check for this, but it's good practice for the quiz!)

- The following REPL examples demonstrate expected functionality of your `value_exists` function:

- If using the autograder, save your file as value_exists.py.

```
1  >>> test_dict: dict[str,int] = {"a": 2, "b": 4, "c": 7, "d": 1}
2  >>> test_val: int = 4
3  >>> value_exists(test_dict, test_val)
4  True
5  >>> value_exists(test_dict, 5)
6  False
```

1.1. Write your function definition here: