

hasnoprimes

Question:

Write a function `hasNoPrimes(L)` that takes a 2D list `L` of integers and returns `True` if `L` does not contain any prime numbers, and `False` otherwise.

Definition:

- A **Prime Number** is a natural number greater than 1 that has no positive divisors other than 1 and itself. Examples include 2, 3, 5, 7, 11, and 13.
- The function should check all elements in the 2D list `L` and determine if any of them are prime numbers.

Input Format:

A 2D list `L` of integers.

Output Format:

The function should return `True` if `L` does not contain any prime numbers, and `False` otherwise.

Example:

Input:

```
[[4, 6, 8], [10, 12, 14]]
```

Output:

```
True
```

Input:

```
[[4, 6, 7], [10, 12, 14]]
```

Output:

```
False
```

Explanation: For the first input, the function returns `True` because there are no prime numbers in the 2D list. For the second input, the function returns `False` because 7 is a prime number.

Hints:

- You can write a helper function to check if a number is prime.
- Iterate through all elements in the 2D list and check if any element is prime.