First we start off by defining a class called Deque

Initialize the class

Set it to check if its empty as part of the class

Set it to add to the front of the queue

Set it add to the rear of the queue

Set it to remove from the front of the queue

Set it to remove from the rear of the queue

Set it to check the size of the queue

Create a function to check if a word is a palindrome

First have it call of the deque class creating a new deque

Start with a for loop to add the word letter by letter to the deque

Then create a while loop that checks the size and while it is 2 or more loop through the letters

Create a new variable called first that pops out the front of the deque and stores it

Create a new variable called last that pops out the end of the deque and stores it

Then check if the first does not equal the last

If it does not equal the loop ends and returns that it is not a palindrome

If it makes it all the way without first not equaling last it exits all the loops and returns it is a palindrome

Test case

1. Print(palchecker(“zoom”))
   1. Is not a palindrome!
      1. Fails
2. Print(palchecker(“radar”))
   1. Is a palindrome!
      1. Pass
3. Print(palchecker(“toot”))
   1. Is a palindrome!
      1. Pass
4. Print(palchecker(“madam”))
   1. Is a palindrome!
      1. Pass