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1 class Stack:
       def __init__(self):
          self.items = []
        def is_empty(self):
          return len(self.items) == 0
       def push(self, item):
         self.items.append(item)
       def pop(self):
        if not self.is_empty():
    return self.items.pop()
 16 def is_palindrome(numbers):
       num_stack = Stack()
      for num in numbers:
       num_stack.push(num)
        for num in numbers:
        if num != num_stack.pop():
 28 def main():
           numbers = input("Enter a sequence of numbers: ").strip()
          numbers = [int(num) for num in numbers if num.isdigit()]
         if is_palindrome(numbers):
    print("The sequence is
            print("The sequence is a palindrome.")
else:
         else:
print("The sequence is not a palindrome.")
        except ValueError:
          print("Invalid input. Please enter a sequence of numbers.")
40 if __name__ == "__main__":
41 main()
                                                            inp
    Enter a sequence of numbers: 12321
    The sequence is a palindrome.
Enter a sequence of numbers: 12312
The sequence is not a palindrome.
```

"I affirm that I will not give or receive any unauthorized help on this exam, and that all work will be my own."