

```
Def reverse_number(num):
```

```
    """Return the reverse of the given number."""
```

```
    Return int(str(num)[::-1])
```

```
Def is_palindrome(num):
```

```
    """Check if the given number is a palindrome."""
```

```
    Return str(num) == str(num)[::-1]
```

```
Def find_palindrome(N):
```

```
    """Find the palindromic number by adding the number to its reverse."""
```

```
    Current = N
```

```
    While True:
```

```
        Reversed_num = reverse_number(current)
```

```
        Current += reversed_num
```

```
        If is_palindrome(current):
```

```
            Return current
```

```
N = int(input().strip())
```

```
Result = find_palindrome(N)
```

```
Print(result)
```