

Question 1

Create a function that takes a number as an argument and returns `True` or `False` depending on whether the number is symmetrical or not. A number is symmetrical when it is the same as its reverse.

Examples

```
is_symmetrical(7227) ➔ True
```

```
is_symmetrical(12567) ➔ False
```

```
is_symmetrical(44444444) ➔ True
```

```
is_symmetrical(9939) ➔ False
```

```
is_symmetrical(1112111) ➔ True
```

Question 2

Given a string of numbers separated by a *comma and space*, return the product of the numbers.

Examples

```
multiply_nums("2, 3") ➔ 6
```

```
multiply_nums("1, 2, 3, 4") ➔ 24
```

```
multiply_nums("54, 75, 453, 0") ➔ 0
```

```
multiply_nums("10, -2") ➔ -20
```

Question 3

Create a function that squares every digit of a number.

Examples

```
square_digits(9119) ➔ 811181
```

```
square_digits(2483) ➔ 416649
```

```
square_digits(3212) ➔ 9414
```

Notes

The function receives an integer and must return an integer.

Question 4

Create a function that sorts a list and removes all duplicate items from it.

Examples

```
setify([1, 3, 3, 5, 5]) ➔ [1, 3, 5]
```

```
setify([4, 4, 4, 4]) ➔ [4]
```

```
setify([5, 7, 8, 9, 10, 15]) ➔ [5, 7, 8, 9, 10, 15]
```

```
setify([3, 3, 3, 2, 1]) ➔ [1, 2, 3]
```

Question 5

Create a function that returns the mean of all digits.

Examples

```
mean(42) ➔ 3
```

```
mean(12345) ➔ 3
```

```
mean(666) ➔ 6
```

Notes

- The mean of all digits is the sum of digits / how many digits there are (e.g. mean of digits in 512 is $(5+1+2)/3$ (number of digits) = $8/3=2$).
- The mean will always be an integer.