

### 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  $(5+1+2)/3(\text{number of digits}) = 8/3=2$ ).
- The mean will always be an integer.